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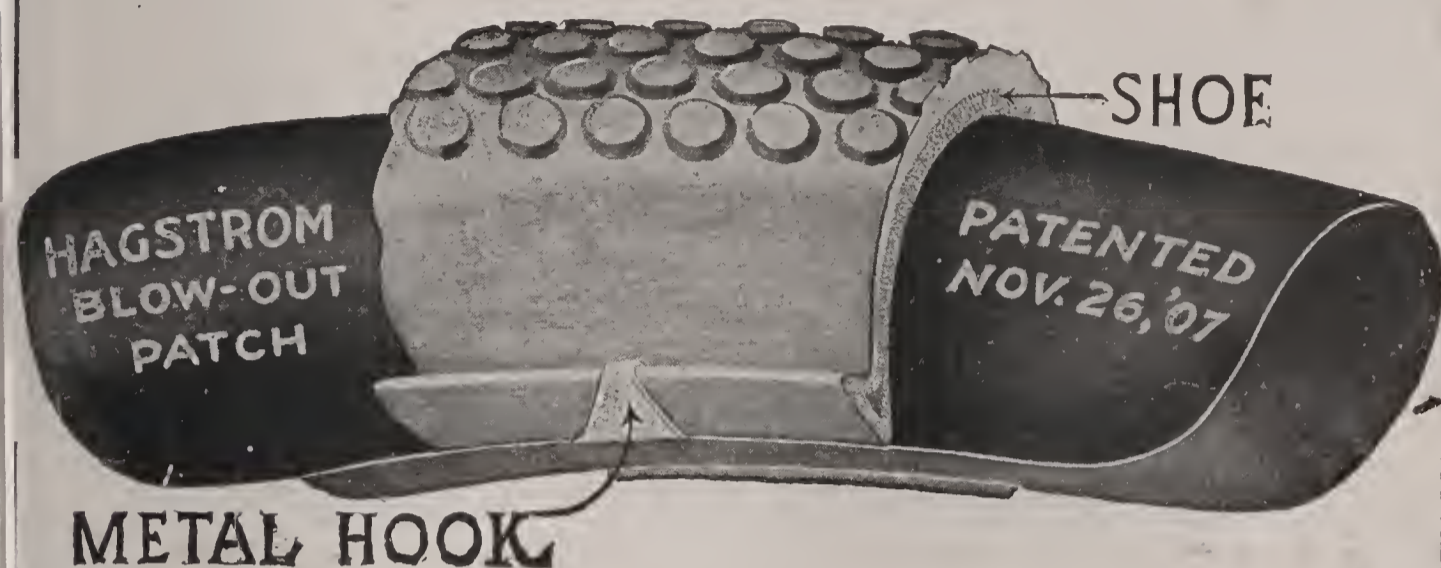
V. 7







Go ahead in safety



WHEN you carry HAGSTROM INSIDE TIRE SLEEVES in your tool box there is no need of carrying extra casings. The Hagstrom Sleeve fills the bill. They do not disfigure your car and, once inserted in the tires, will last thousands of miles; they positively can not creep and will build up the weak spots; saves vulcanizing, if applied in time, prevents rim cuts and blow outs; easy to insert and will save a large per cent of your tire expense. The Hagstrom Tire Sleeves are the greatest sensation of the season in the auto-tire accessory line, and is the only sleeve that has the endorsement of

our leading motorists and racing men.

Workmanship and material are carefully selected. The Hagstrom Sleeves are put up in boxes, making them convenient to carry. Ask your dealer. On sale everywhere.

HAGSTROM BROS. MANUFACTURING CO.

Works and Main Office
LINDSBORG, KANSAS

Do You Wonder that the Splitdorf Product Leads the World?

The Most Marvelous Non-Stop Automobile Run
Ever Made—10,000 miles without stopping its engine
recently accomplished by a Maxwell car equipped with a

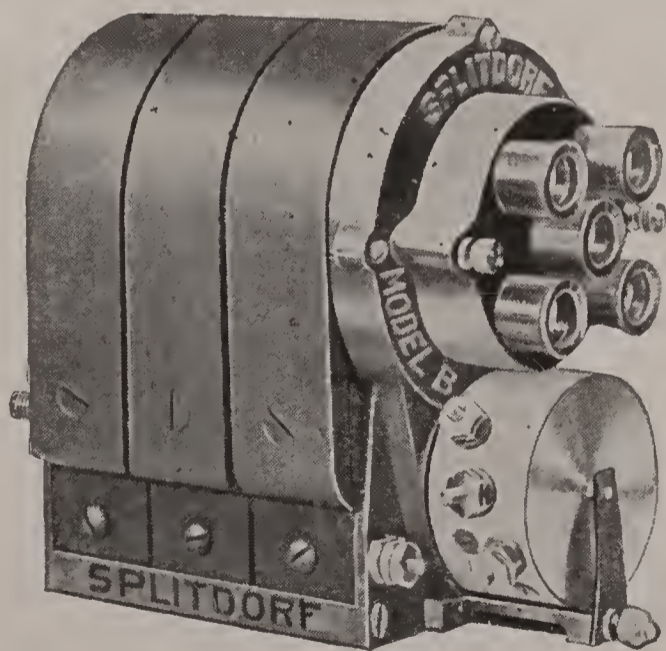
SPLITDORF MAGNETO

AND

COMMON SENSE PLUGS

Magneto and Plugs gave absolutely perfect ignition
during entire run.

It is comparatively easy for any Magneto or Plug to show
good results in a race of 400 or 500 miles, but a gruelling test
of 25 days' continuous and perfect work is a performance
that proves to the utmost the efficiency and reliability of this
incomparable Magneto and Plug.



The following is the last paragraph
of a letter received by us from the
Maxwell-Briscoe Motor Co. regarding
this unparalleled feat:

"This test has conclusively
proved to us that your Mag-
neto is superior to anything
we have ever used.

Yours very truly,
MAXWELL-BRISCOE MOTOR CO.
C. W. Kelsey."

Ask for Magneto catalog

CHICAGO: 319 Michigan Ave.
SAN FRANCISCO:
520 Van Ness Ave.
DETROIT: 886 Woodward Ave.
BOSTON: Motor Mart.

C. F. SPLITDORF

Walton, Ave. and 138th St. **NEW YORK**
Branch, 1679 Broadway

Autoline

The Perfect Lubricating Oil for All Types of Motor Cars
and Motor Boats

The Oil that Saves the Motor

A supply of Autoline for cylinders, Greoil for transmissions
and B Journal Compound for bearings on a long trip se-
cures a maximum of efficiency and a minimum of worry.

Autoline

IF PROPERLY USED

Will Not Carbonize--Will Not Soot

Quality and uniformity guaranteed—Accept no substitute.
There is nothing “Just as Good” for a motor car of any
description. If your garage does not keep Autoline,
write us and name make of your car.

Autoline

Manufactured by

Wm. C. Robinson & Son Co.

CHICAGO, ILL.

TERRE HAUTE, IND.

BALTIMORE, MD.

BOSTON, MASS.

PHILADELPHIA, PA.

PITTSBURG, PA.

CINCINNATI, O.

REFINERY AT CORAOPOLIS, PA.

First on Land, First on Sea,
First in the Hearts of All Motormen

Mosler Spit Fire PLUGS

Lead the World

USED BY THE LEADING MANUFACTURERS
MAGNETO TYPE OF ALL SIZES

Made to fit any engine, any thread.

Have heavy Genuine Iridium Platinum Points.

Can be had for the asking.

Energetic Ignition

BASE Protects Porcelain and Sparking Points
BASE acts as Condenser of Electricity
BASE Forms Compression Chamber

Greater Power

BASE Makes Plugs Spit Fire
BASE Economizes Current
BASE Facilitates Sparking

INSIST UPON THE TWO PATENTED SIDE CLEANING HOLES

—One is not enough!

*We Protect our Registered Trade Mark and Patents. Dealers and Jobbers **BEWARE!***

Do not be deceived by any other "Fire" name.

There is only ONE GENUINE "Spit Fire" plug—that made by

A. R. MOSLER & CO.

Originators of the "Spit Fire" principle

A TRIUMPH FOR THE SPIT FIRE

The ONLY Plugs in the WORLD that ACTUALLY Spit Fire

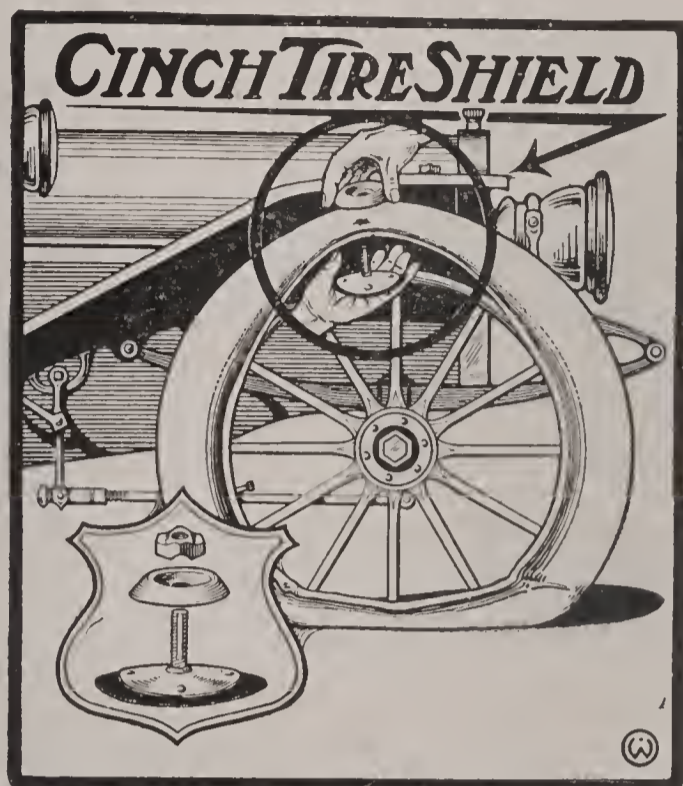
INSIST ON THE GENUINE, with Name on Porcelain and Base

A. R. MOSLER & CO 163 W 29th Street, New York

Don't Walk Home

Don't Run on Flat Tires

Put on a **CINCH**



Patent Allowed

ARE YOU PREPARED FOR A BLOW-OUT?

IF NOT

GET A CINCH TIRE SHIELD

Made to fit any sized tire

Made either of LEATHER REINFORCED with STEEL or of
STEEL COVERED WITH CANVAS

WHY CARRY EXTRA CASES?

Put a few Cinches in the tool box and repair any and all blow-outs

ASK FOR OUR CATALOGUE

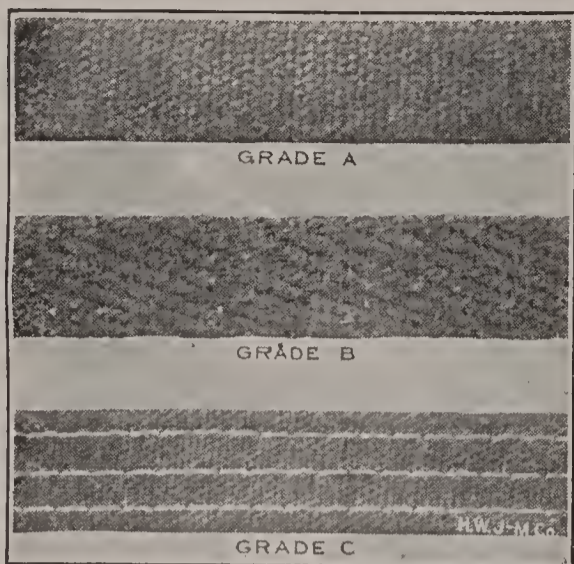
OF

AUTO NOVELTIES AND SUPPLIES INCLUDING THE MARVELOUS
TARNISH PREVENTATIVE

LAWRENCE & WELCH

STERLING, ILLINOIS

For sale by all Reliable Dealers



MADE IN THREE GRADES—
Any Length or Thickness

NON-BURN BRAKE LINING is made of pure long-fibred Asbestos with brass wires inserted. Heat from friction or oil and water do not affect it. Wears 40,000 to 50,000 miles.

Write nearest Branch for Sample and Booklet.

Non-Burn Brake Lining Locked Wheels Instantly

Out of the five most largely used brake band linings recently put to an exhaustive test by Mr. J. D. Maxwell, of the Maxwell Briscoe Motor Company.

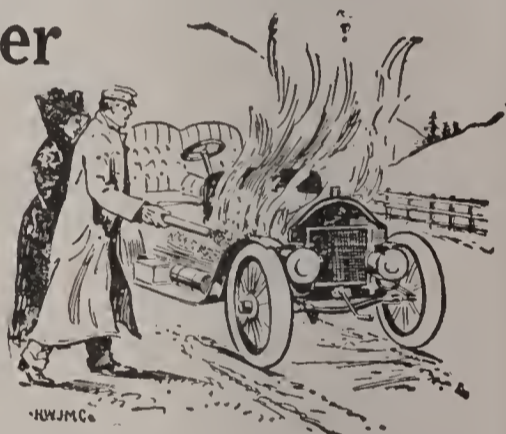
Non-Burn was the only one which locked wheels of car **INSTANTLY**. The lining which came nearest to this locked wheels in 12 feet.

A difference of only one foot in the stopping distance often averts a serious accident!

Manville Fire Extinguisher

is absolutely warranted to put out any fire, whether arising from gasoline, benzine, calcium carbide, or any other cause, if thrown at the base of flames when fire first starts. It is also warranted not to injure paint or the upholstering, and not to freeze, cake in the tube, corrode or deteriorate with age.

Is always ready, always sure. **Over a Half Million in Use.**



Write nearest Branch for Booklet.



Mobilene Packing Won't Blow Out

MOBILENE PACKING does not burn, char, harden and blow out like rubber, cloth and other so-called gas-engine packings. It is made of an indestructible mineral — *asbestos* — which heat does not affect.

MOBILENE also has exceptional strength because fine brass wires are intertwined in each strand. It is pliable, compressible and easily cut. Is graphited one side and all ready to apply.

See that it is used on your auto and avoid vexatious delays. **Write nearest Branch for Sample and Booklet.**

H. W. JOHNS-MANVILLE CO.

Baltimore
Boston
Buffalo
Chicago

Cleveland
Dallas
Detroit
Kansas City

London
Los Angeles
Milwaukee
Minneapolis

New Orleans
New York
Philadelphia
Pittsburg

San Francisco
Seattle
St. Louis

Waterhouse

Carburetor

No re-hashing of old methods,
fundamentally new

IT HAS ONLY ONE ADJUST-
MENT, THE NEEDLE VALVE,
ONCE SET REMAINS FIXED
FOR ALL SPEEDS

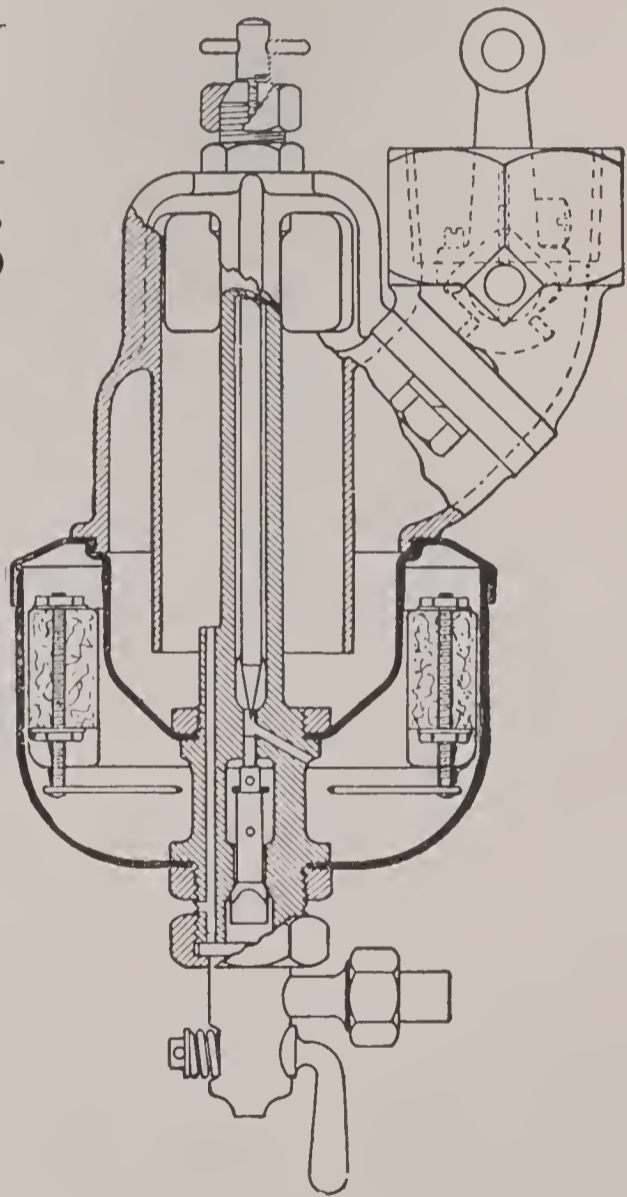
No Air Auxiliaries, no Springs
and no Spray Nozzle, can't
Flood.

Always primed for starting, won't
choke up. Responds to the
throttle instantly.

It's light in weight and very tiny.

Extremely powerful and gives
absolutely no trouble.

Its price is low.



ONE-HALF ACTUAL MEASUREMENTS OF
ONE INCH SIZE

Makers of the
celebrated

**Bemus
Timers**

Monitor Mfg. Co.

28 PELHAM COURT
Boston, Mass.

Manufacturers of the
Famous

**Monitor
Distributors**

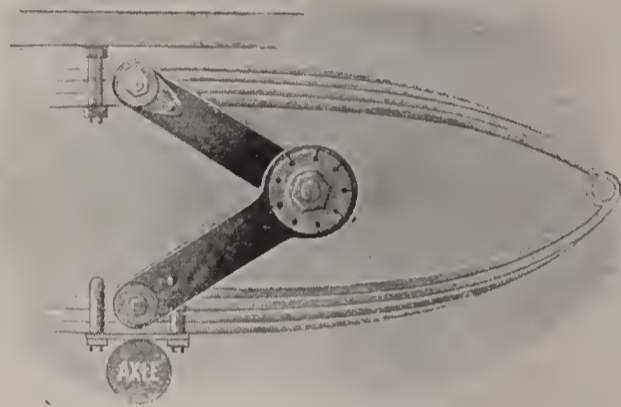
STOP THE JAR AND SHOCK

AND THE EVER WORKING INJURY TO YOUR
CAR BY THE USE OF THE

WESTEN SHOCK ABSORBER

THE ONLY SHOCK ABSORBER MADE THAT
WILL AUTOMATICALLY ADJUST THEMSELVES
TO ANY LOAD OR ROAD CONDITIONS.

This absorber automatically adjusts itself to the natural position regardless of the load carried by the vehicle, and at the same time brakes the upward as well as the downward motion of the springs.



In the ordinary shock absorber the absorbing qualities are lost by the addition of extra weight, or if the car meets with an unordinary obstruction. While the vibration of the engine is in no way checked and is the cause of much wear and tear. Westen Shock Absorbers catch all vibrations at all times no matter how small or how great. The automatic adjustment within itself make them superior. After once attached to your car assurance of safety and less cost for upkeep is guaranteed, and the unpleasant sound of the nerve racking rat-

tle of loose parts is eliminated.

You should realize at once the damage done by oscillation and equip your car with Westen Shock Absorbers. You will then be prepared to meet unexpected jolts and unseen depressions in the road and add, at the same time, comfort to the passengers of the car.

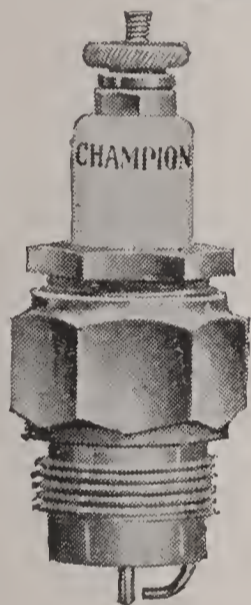
There are two friction planes which make the absorber capable of offering different degrees of resistance to the action of the vehicle springs under varying conditions.

WESTEN MANUFACTURING Co.

290 HALSEY STREET

Newark, New Jersey

The Right Spark Plug is an important adjunct to any Gas Engine



In the construction of the Champion Spark Plug the utmost care is given to every detail, thus assuring the best results.

The porcelain is of the very highest quality procurable.

The centre wire is firmly cemented and baked in, thus doing away with any possible leak of compression through that source.

The shell and bushing are cut from solid stock and so designed that when assembled porcelain does not actually come in contact with either at any point, thus preventing any chance of breakage from contraction or expansion of metal.

The workmanship on parts is so good and so accurate that no matter how many times the plug is taken apart and re-assembled the porcelain is always perfectly centered.

The electrodes or points are of nickel alloy; will not oxidize; are imperforable to spark of almost any intensity; are especially adapted to use with magneto, under which use the points will not burn off as they do on so many other plugs.

The combustion chamber at lower extremity of porcelain keeps the points free from soot, and practically eliminates any necessity for cleaning.

We particularly recommend the use of Champion Plugs under severest conditions, such as very high compression, excessive oil in cylinders, with magneto, etc.

Genuine Champion Spark Plugs are manufactured only by

The Champion Company

36 Whittier Street, Boston, Mass.

This is

a cash

6



60

proposition

\$10.00

only

Compare these sizes with other 6 volt
60 ampere Batteries

$8 \times 6\frac{1}{4} \times 9\frac{1}{8}$

Guaranteed for one year or money refunded. Made in
sizes from 40 amperes up

MICHIGAN STORAGE BATTERY Co.

67 East Atwater Street, Detroit, Mich.

YOUR CAR CANNOT RUN EASIEST

Nor Last Longest Without the Best Lubricant

The ONE Automobile Oil and the
ONE Automobile Grease you
can always depend upon—that gives
PERFECT SATISFACTION and
reduces cost of lubrication and repair bills
to a minimum is

SPEARE'S

AUTO OIL AND GREASE

THEY SAVE WEAR
INCREASE POWER and
EVERY DROP LUBRICATES

WHY?

Because they are manufactured
by a firm with fifty-five years'
experience in the lubricating oil
business.

Speare's Body Soap
Speare's Metal Polish
Speare's Waste

are also the most economical
you can buy

SPEARE'S GOODS are sold everywhere;
if not, send dealer's name and write us direct.

DEALERS—Send for Speare's latest proposition.

THE ALDEN SPEARE'S SONS CO.

Established 1851

253 Broadway
New York

369 Atlantic Avenue
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21 River Street
Chicago

T. S. D. Recording Company

(Metropolitan Building)

NO. 1 MADISON AVENUE, NEW YORK

Manufacturers of best modern devices and instruments for accurately measuring **TIME, SPEED, DISTANCE**, including stops or waiting time, and permanently registering same.

Machines suitable for all kinds of vehicles—horse drawn or motor. Especially adapted for Automobiles.

T. S. D. Combination Recorder, containing within a highly polished brass case, securely locked, with plate glass front, a Speedometer, Odometer, Clock (eight day, full-jewelled marine movement), and recording tape sufficient for one week, on which is correctly and permanently recorded time employed, speed attained, distance travelled and stops made day or night. **Absolutely eliminates "Joy Rides."**

T. S. D. Commercial Recorder (for commercial vehicles), comprising clock and record tape, locked within a solid metal case, and giving a clear, permanent record of exact movement of vehicles, thus preventing or minimizing speeding or loitering.

T. S. D.
Combination
Recorder



Half
Size

T. S. D. Speedometer and Odometer combined
T. S. D. Speedometer—singly
T. S. D. Odometer
T. S. D. Clocks
T. S. D. Taximeter or Taxirecord for taxicabs and
vehicles for hire

Exclusive
Territory
To
Responsible
Representatives

The construction of all T. S. D. Machines embodies features which mark a distinct advance in the State of the Art, and will meet all requirements of practicability, reliability, accuracy and durability, which instruments for the service intended should possess.

THE KLAXON

Trade Mark Reg. Patented Mar. 31-08, Jan. 19-09 (2), Feb. 2-09, May 25-09 (3)

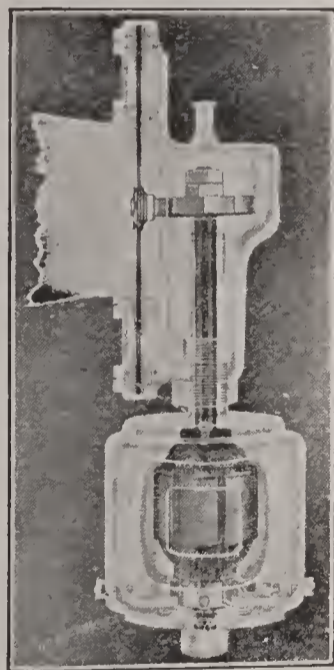
“THE X-RAY OF SOUND”

THE “Klaxon” is a Noise machine.

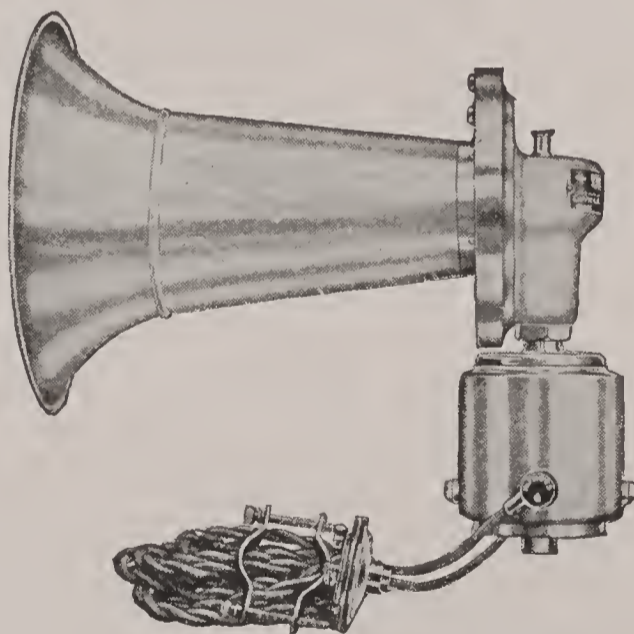
It is run by an electric motor and is built to run for years :: :: ::

It operates from a 6 or 8-volt storage battery or 8 dry cells. It is not

a horn--reed or electric---though it looks somewhat like one :: :: ::



Sectional view of KLAXON showing relative position of motor shaft, toothed wheel and vibrating diaphragm.



Type L—Long Projector

Lovell-McConnell
Mfg. Co., *Manufacturers*

365-367 Market Street, NEWARK, N. J.

The
Klaxon Company

Sole Distributors for U. S. A.

1 Madison Avenue, NEW YORK

TOURISTS en route between CHICAGO and NEW YORK

Can secure UNIFORM LUBRICATION and FREEDOM from CARBON
TROUBLES, by calling for

ANTI-CARBON AUTO OIL

Made By

THE KEYSTONE REFINING CO.
COLUMBUS, OHIO

at any of the following FIRST-CLASS GARAGES along the route :

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The Motor Car Supply Co., 1451-53 Michigan Ave.

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CROWN POINT, IND. }
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J. E. Palethorpe, 20 East Sycamore

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Fremont Auto & Repair Co., 207-09 Garrison Street

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H. P. Klaiss, 123 East Market Street

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ELYRIA, OHIO—The Auto Inn

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Niagara Falls Auto & Transit Co., 103 Main St.

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By using the same grade of oil from start to finish you avoid the necessity of changing feed, and we are positive you can not start with a better oil, or one that will cause you LESS CARBON TROUBLE than our celebrated

ANTI-CARBON AUTO OIL

We will appreciate it if consumers will report to us any dealers who try to substitute an inferior oil for our ANTI-CARBON.

THE KEYSTONE REFINING COMPANY
COLUMBUS, OHIO



The same
consistency
for all
seasons of
the year.
Not
affected by
severe con-
ditions of
heat and
cold.



KEYSTONE GREASE

ESTABLISHED 1884

Holds the record
for lowest fric-
tion and greatest
test for endur-
ance in the great
plant of the Wil-
liam Cramp &
Sons Ship and
Engine Building
Company, Phila-
delphia.

ORDER IT
NEXT TIME



Has an estab-
lished reputation
in the power
plant field for
superiority and
greatness. Ask
any engineer
anywhere.

Is not soluble in
water like cheap
grease.

ORDER IT
NEXT TIME

The World's Greatest Lubricant

No. 1 Density (solid) for use in all grease cups—on axle bearings or wherever the use of a solid lubricant might be required.

No. 3 Density (semi-solid) for transmission, differential and timing gear cases.

KEYSTONE

Lubricating
Company

Philadelphia

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BOSTON
Oliver Bldg.
NEW ORLEANS
612 Chartres Bldg.



Dealers and Jobbers write
for our Special Proposition.

Gus Balzer Manufacturer and
Manufacturers Representative

Representing

MONOGRAM CREST AND SIGN CO.

We Handle Following Goods:

Sawed and Etched Name Plates. Radiator Cap Eagles and
Ornaments. Limousine Bouquet Holders.

We Make a Specialty of all Ornaments that are used on an Automobile

1777 Broadway

New York

The so called Tire Problem is
no Problem at all to a raft of

Goodrich Tire

— U S E R S —

They get inexpensive pleasurable
milage—and a good deal of it

The B. F. Goodrich Company
Akron, Ohio

Branches in all large Cities

The "Excentric" Mica Plug

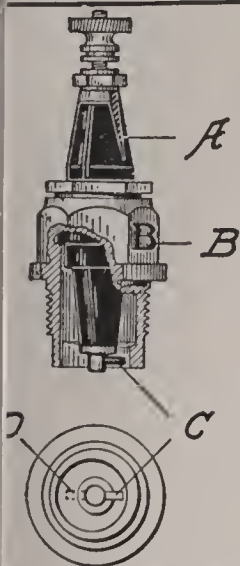
Try it and convince yourself of its
superiority. Guaranteed for one year

Mica Core Manufacturing Co.

Makers of Spark Plugs, Mica
Cores, Timers and Distributers

446 E. 166th STREET

NEW YORK CITY



WORCESTER IGNITION SPECIALTIES



WORCESTER COMBINATION ROTARY SWITCH
(Controller Type)

Operated by Hand or Foot

WORCESTER AUTOMOBILE AND MARINE COILS

SEND FOR CATALOG

W. H. LELAND & COMPANY

WORCESTER :: MASSACHUSETTS

PHOTO-AUTO MAPS

Photographs of every turn, together with a
Topographical Outline of Road
Showing Railroad Crossings, Bridges, School
Houses and All Landmarks, with
Accurate Distances Between

CLEVELAND AND OBERLIN
TO BUFFALO

BUFFALO AND ROCHESTER
TO CLEVELAND

Rand McNally & Company

PUBLISHERS

166 and 168 Adams Street
CHICAGO

142 Fifth Avenue
NEW YORK

© Aug. 7. 1909
Cl. A 244656
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Instructions for Using Photo- Auto Maps

The best way to use the Photo-Auto Maps is to follow the route by the topographical map and refer to the photographs only to make sure that you are turning at the right place. Use your meter at all times to get the distances between turns. The distances given between turns will vary with different machines, as a slight difference in size of tires, different conditions of the roads and many other things tend to vary the register. Three meters were used and an average taken to get the distances given. The numbers in the squares and circles give the number of the photographs at the turns and the figures outside of them give the distance to the next photograph. The compass on each plate should be used to get correct directions. This map is not drawn to scale, but is made to show the turns to the best advantage. Where turns occur close together the map is enlarged and where there is a long straight run it is condensed, so do not judge distances by the appearances of the map. Go entirely by the meter readings. Distances between closest points only are given to insure the smallest variation. The distances given are the average obtained from three different makes of speedometers and a re-check by the Warner Auto-Meter.

Copyright, 1907, by G. S. Chapin, Chicago

Copyright 1909, by Rand McNally, & Co., Chicago

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To the Motorist Who is Down on His "Tire Luck"

You don't hear the man who uses Morgan & Wright tires saying much about his "tire luck," good or bad.

After he has used a pair or two, he gets out of the habit of ascribing the completion of a trip or a tour without tire trouble to good fortune. He lays it to "**Good Tires**"—nothing else. He knows that—take tires made as Morgan & Wright tires are, out of the highest grade of materials with a painstaking care in regard to the minutest details of construction, and give them proper care—tire service ceases to be a matter of chance.

He gets a confidence in his tire equipment that adds much to the enjoyment of his car, and a freedom from repair bills that is a big help to his bank account.

There is no truer saying in motordom than that—

MORGAN & WRIGHT TIRES
ARE GOOD TIRES

Dealers everywhere sell them at the same price you are asked to pay for other brands.

Morgan & Wright, Detroit

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Simplicity, Strength

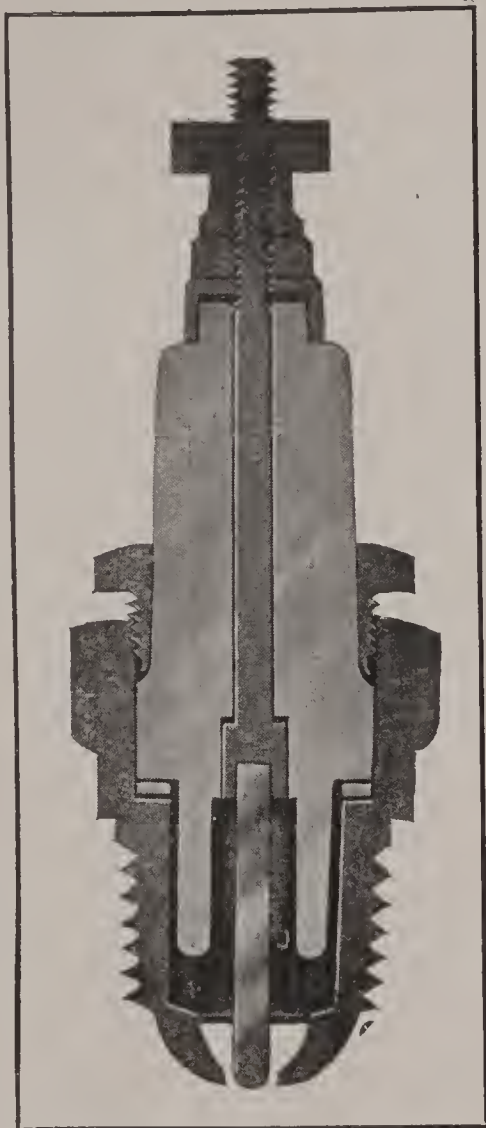
FOR MAGNETO OR BATTERY

Buy a

FRY

With Porcelain
Insulator **75c**

With Mica Insulator **\$1.00**



Compare it to-day with any
plug in the world at any price.

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SOLD EVERYWHERE

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Absolutely Indestructible

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Any Thread

Same Price

CLEANED IN ONE MINUTE

STANDARD SALES COMPANY

MAKERS

J. STEWART SMITH, *Manager*

1779 Broadway, at 57th Street

NEW YORK CITY

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Table of Distances Between Points

CHICAGO TO SOUTH BEND

FROM — TO	Chicago	Hammond	Highlands	Hobart	Wheeler	Valparaiso	Westville	La Porte	New Carlisle	South Bend
Chicago - - - - -	—	19.6	26.9	39.0	44.8	53.4	64.7	76.5	91.0	106.2
Hammond - - - - -	19.6	—	7.3	19.4	25.2	33.8	45.1	56.9	71.4	86.6
Highlands - - - - -	26.9	7.3	—	12.1	17.9	26.5	37.8	49.6	64.1	79.3
Hobart - - - - -	39.0	19.4	12.1	—	5.8	14.4	25.7	37.5	52.0	67.2
Wheeler - - - - -	44.8	25.2	17.9	5.8	—	8.6	19.9	31.7	46.2	61.4
Valparaiso - - - - -	53.4	33.8	26.5	14.4	8.6	—	11.3	23.1	37.6	52.8
Westville - - - - -	64.7	45.1	37.8	25.7	19.9	11.3	—	11.8	26.3	41.5
La Porte - - - - -	76.5	56.9	49.6	37.5	31.7	23.1	11.8	—	14.5	29.7
New Carlisle - - - - -	91.0	71.4	64.1	52.0	46.2	37.6	26.3	14.5	—	15.2
South Bend - - - - -	106.2	86.6	79.3	67.2	61.4	52.8	41.5	29.7	15.2	—

TABLE OF DISTANCES

	South Bend	Mishawaka	Osceola	Goshen	Benton	Ligonier	Wawaka	Kendallville	Waterloo	Butler	Edgerton	Bryan	Stryker	Archbold	Wauseon	Delta	Swanton	Toledo
South Bend																		
Mishawaka	4.5																	
Osceola	4.5	P 5.7																
Goshen	10.2	5.7	H 14.6															
Benton	24.8	20.3	14.6	O 7.3														
Ligonier	32.1	27.6	21.9	7.3	T 10.7													
Wawaka	42.8	38.3	32.6	18.0	10.7	O 6.3												
Kendallville	49.1	44.6	38.9	24.3	17.0	6.3												
Waterloo	61.8	57.3	51.6	37.0	29.7	12.7												
Butler	76.8	72.3	66.6	52.0	44.7	34.0	27.7	A 15.0										
Edgerton	84.5	80.0	74.3	59.7	52.4	41.7	35.4	22.7	U 7.7									
Bryan	91.7	87.2	81.5	66.9	59.6	48.9	42.6	29.9	14.9	T 7.2								
Stryker	103.4	98.9	93.2	78.6	71.3	60.6	54.3	41.6	26.6	18.9	O 11.7							
Archbold	112.1	107.6	101.9	87.3	80.0	69.3	63.0	50.3	35.3	27.6	20.4	8.7						
Wauseon	119.3	114.8	109.1	94.5	87.2	76.5	70.2	57.5	42.5	34.8	27.6	15.9	M 7.2					
Delta	129.7	125.2	119.5	104.9	97.6	86.9	80.6	67.9	52.9	45.2	38.0	26.3	17.6	A 10.4				
Swanton	140.6	136.1	130.4	115.8	108.5	97.8	91.5	78.8	63.8	56.1	48.9	37.2	28.5	21.3	P 10.9			
Toledo	146.0	141.5	135.8	121.2	113.9	103.2	96.9	84.2	69.2	61.5	54.3	42.6	33.9	26.7	16.3	S 5.4		
	173.4	168.9	163.2	148.6	141.3	130.6	124.3	111.6	96.6	88.9	81.7	70.0	61.3	54.1	43.7	32.8	27.4	27.4

TABLE OF DISTANCES

	Toledo	Genoa	Woodville	Fremont	Clyde	Bellview	Monroeville	Norwalk	Townsend	Wakeman	Kipton	Oberlin	Elyria	Ridgeville	Dover	Cleveland
Toledo	14.1	14.1	19.4	33.3	42.3	49.9	58.4	63.5	70.2	74.7	82.5	88.4	97.8	102.6	109.7	123.7
Genoa	14.1	P	5.3	19.2	28.2	35.8	44.3	49.4	56.1	60.6	68.4	74.3	83.7	88.5	95.6	109.6
Woodville	19.4	H	5.3	13.9	22.9	30.5	39.0	44.1	50.8	55.3	63.1	69.0	78.4	83.2	90.3	104.3
Fremont	33.3	19.2	13.9	O	9.0	16.6	25.1	30.2	36.9	41.4	49.2	55.1	64.5	69.3	76.4	90.4
Clyde	42.3	28.2	22.9	9.0	T	7.6	16.1	21.2	27.9	32.4	40.2	46.1	55.5	60.3	67.4	81.4
Bellview	49.9	35.8	30.5	16.6	7.6	O	8.5	13.6	20.3	24.8	32.6	38.5	47.9	52.7	59.8	73.8
Monroeville	58.4	44.3	39.0	25.1	16.1	8.5		5.1	11.8	16.3	24.1	30.0	39.4	44.2	51.3	65.3
Norwalk	63.5	49.4	44.1	30.2	21.2	13.6	5.1	A	6.7	11.2	19.0	24.9	34.3	39.1	46.2	60.2
Townsend	70.2	56.1	50.8	36.9	27.9	20.3	11.8	6.7	U	4.5	12.3	18.2	27.6	32.4	39.5	53.5
Wakeman	74.7	60.6	55.3	41.4	32.4	24.8	16.3	11.2	4.5	T	7.8	13.7	23.1	27.9	35.0	49.0
Kipton	82.5	68.4	63.1	49.2	40.2	32.6	24.1	19.0	12.3	7.8	O	5.9	15.3	20.1	27.2	41.2
Oberlin	88.4	74.3	69.0	55.1	46.1	38.5	30.0	24.9	18.2	13.7	5.9		9.4	14.2	21.3	35.0
Elyria	97.8	83.7	78.4	64.5	55.5	47.9	39.4	34.3	27.6	23.1	15.3	9.4	M	4.8	11.9	25.9
Ridgeville	102.6	88.5	83.2	69.3	60.3	52.7	44.2	39.1	32.4	27.9	20.1	14.2	4.8	A	7.1	21.1
Dover	109.7	95.6	90.3	76.4	67.4	59.8	51.3	46.2	39.5	35.0	27.2	21.3	11.9	7.1	P	14.0
Cleveland	123.7	109.6	104.3	90.4	81.4	73.8	65.3	60.2	53.5	49.0	41.2	35.0	25.9	21.1	14.0	S

TABLE OF DISTANCES

	Cleveland	Willoughby	Mentor	Painesville	Geneva	Ashtabula	Conneaut	E. Springfield	Girard	Fairview	Erie	Buffalo
Cleveland												
Willoughby	18.8		23.5	29.7	47.5	58.0	71.8	80.4	85.9	90.2	102.1	197.2
Mentor	23.5	4.7		10.9	28.7	39.2	53.0	61.6	67.1	71.4	83.3	178.4
Painesville	29.7	10.9	6.2		24.0	34.5	48.3	50.7	56.2	60.5	72.4	167.5
Geneva	47.5	28.7	17.8	17.8		10.5	13.8	22.4	27.9	32.2	44.1	139.2
Ashtabula	58.0	39.2	28.3	28.3	10.5		13.8	8.6	14.1	18.4	30.3	125.4
Conneaut	71.8	53.0	42.1	42.1	24.3	13.8		22.4	27.9	32.2	44.1	139.2
E. Springfield	80.4	61.6	56.9	50.7	32.9	22.4	8.6		14.1	18.4	30.3	125.4
Girard	85.9	67.1	62.4	56.2	38.4	27.9	14.1	5.5		4.3	11.9	107.0
Fairview	90.2	71.4	66.7	60.5	42.7	32.2	18.4	9.8	4.3		11.9	107.0
Erie	102.1	83.3	78.6	72.4	54.6	44.1	30.3	21.7	16.2	11.9		95.1
Buffalo	197.2	178.4	173.7	167.5	149.7	139.2	125.4	116.8	111.3	107.0	95.1	

TABLE OF DISTANCES

[illegible]

TABLE OF DISTANCES

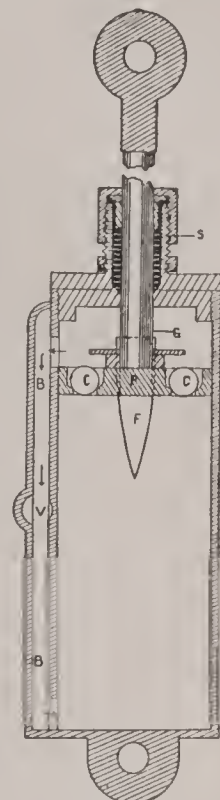
	Buffalo	Batavia	Bergen	Churchville	Rochester	Pittsford	Macedon	Palmyra	Phelps	Auburn	Elbridge	Camillius	Syracuse	Albany
Buffalo														
Batavia	39.6		55.6	59.0	73.4	80.6	92.0	97.2	111.7	138.9	149.6	156.6	165.5	318.0
Bergen	55.6	16.0		19.4	33.8	41.0	52.4	57.6	72.1	99.3	110.0	117.0	125.9	278.4
Churchville	59.0	19.4	3.4		17.8	25.0	36.4	41.6	56.1	83.3	94.0	101.0	109.9	262.4
Rochester	73.4	33.8	3.4	14.4		7.2	18.6	23.8	31.1	46.9	52.4	59.4	68.3	220.8
Pittsford	80.6	41.0	16.0	19.4	14.4		11.4	16.6	19.7	27.2	37.9	44.9	53.8	206.3
Macedon	92.0	52.4	36.4	33.0	18.6	11.4		5.2	14.5	27.2	37.9	44.9	53.8	206.3
Palmyra	97.2	57.6	41.6	38.2	23.8	16.6	5.2		14.5	27.2	37.9	44.9	53.8	206.3
Phelps	111.7	72.1	56.1	52.7	38.3	31.1	19.7	14.5		27.2	37.9	44.9	53.8	206.3
Auburn	138.9	99.3	83.3	79.9	65.5	58.3	46.9	41.7	27.2		37.9	44.9	53.8	206.3
Elbridge	149.6	110.0	94.0	90.6	76.2	69.0	57.6	52.4	37.9	10.7		37.9	44.9	206.3
Camillius	156.6	117.0	101.0	97.6	83.2	76.0	64.6	59.4	44.9	17.7	7.0		37.9	206.3
Syracuse	165.5	125.9	109.9	106.5	92.1	84.9	73.5	68.3	53.8	26.6	15.9	8.9		152.5
Albany	318.0	278.4	262.4	259.0	244.6	237.4	226.0	220.8	206.3	179.1	168.4	161.4	152.5	

"DON'T BE SHOCKED!"

"BOSTON" SHOCK ABSORBERS will save
Wear on your engine and transmission,
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Dollars in your pocket,
Racking of your nerves and spinal column.

"BOSTON" SHOCK ABSORBERS will give you
More power from your engine,
More pleasure and comfort from autoing,
A more quiet running car.

"BOSTON" SHOCK ABSORBERS will increase
The life of your car 50%,
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THE BOSTON
PAT. APPLIED FOR

The "BOSTON"

Does not stiffen or in any way injure the action of the springs.

Does not drag on the spring under any condition.

Does not get out of order.

Does prevent you from being thrown out of the seat.

Does prevent continued bouncing after a jounce.

Does really absorb the shock.

30 DAYS TRIAL

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PRICE, \$80.00 per set of four, with hangers fitted and already to put on.

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TABLE OF DISTANCES

	Buffalo	Syracuse	Fayetteville	Chittenango	Canastota	Oneida Castle	Kirkland	New Hartford	Utica	Herkimer	Little Falls	St. Johnsville	Fonda	Amsterdam	Schenectady	Albany
Buffalo	P 165.5	165.5	172.8	180.8	187.5	193.2	207.0	211.8	215.3	231.4	238.4	256.3	276.7	287.4	303.0	318.0
Syracuse	H 7.3	H 7.3	O 8.0	T 6.7	O 6.7	5.7	13.8	4.8	3.5	16.1	7.0	24.9	45.3	17.9	38.3	71.6
Fayetteville	172.8	15.3	14.7	12.4	14.7	5.7	26.2	31.0	34.5	50.6	57.6	75.5	83.5	94.2	109.8	124.8
Chittenango	180.8	22.0	14.7	6.7	6.7	5.7	19.5	24.3	27.8	43.9	50.9	68.8	89.2	99.9	115.5	130.5
Canastota	187.5	22.0	12.4	5.7	6.7	5.7	13.8	18.6	22.1	38.2	45.2	63.1	83.5	94.2	109.8	124.8
Oneida Castle	193.2	27.7	22.4	12.4	14.7	5.7	26.2	31.0	34.5	50.6	57.6	75.5	83.5	94.2	109.8	124.8
Kirkland	207.0	41.5	36.2	26.2	19.5	13.8	4.8	3.5	16.1	7.0	24.9	45.3	83.5	94.2	109.8	124.8
New Hartford	211.8	46.3	39.0	31.0	24.3	18.6	4.8	3.5	16.1	7.0	24.9	45.3	83.5	94.2	109.8	124.8
Utica	215.3	49.8	42.5	34.5	27.8	22.1	8.3	4.8	3.5	16.1	7.0	24.9	45.3	83.5	94.2	109.8
Herkimer	231.4	65.9	58.6	50.6	43.9	38.2	24.4	19.6	16.1	7.0	24.9	45.3	83.5	94.2	109.8	124.8
Little Falls	238.4	72.9	65.6	57.6	50.9	45.2	31.4	26.6	23.1	7.0	17.9	38.3	49.0	64.6	79.6	86.6
St. Johnsville	256.3	90.8	83.5	75.5	68.8	63.1	49.3	44.5	41.0	24.9	17.9	20.4	31.1	56.7	71.7	86.6
Fonda	276.7	111.2	103.9	95.9	89.2	83.5	69.7	64.9	61.4	45.3	38.3	20.4	10.7	26.3	41.3	86.6
Amsterdam	287.4	121.9	114.6	106.6	99.9	94.2	80.4	75.6	72.1	56.0	49.0	31.1	10.7	15.6	30.6	86.6
Schenectady	303.0	137.5	130.2	122.2	115.5	109.8	96.0	91.2	87.7	71.6	64.6	56.7	26.3	15.6	15.0	86.6
Albany	318.0	152.5	145.2	137.2	130.5	124.8	111.0	106.2	102.7	86.6	79.6	71.7	41.3	30.6	15.0	86.6

WINESTOCK SPARK PLUGS

(QUICK DETACHABLE)

DON'T SKIP

Only quick detachable plug containing both terminals in the detachable member.

Absolutely will not leak compression

Positively will not work loose.



PRICE

\$1.75

“Absolutely
Guaranteed”

Gives the hottest spark of any plug made.

Non-breakable insulation.

Adjustable spark gap—once adjusted, always adjusted.

You can't imagine the convenience of a detachable plug until you have used one, it gives you a chance to examine your spark without using a wrench.

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1000 Boylston Street - - BOSTON, MASS.

TABLE OF DISTANCES

	Albany	Rensselaer	Schodack Center	Kinderhook	Stuyvesant Falls	Hudson	Blue Store	Upper Red Hook	Red Hook	Rhinebeck	Staatsburg	Hyde Park	Poughkeepsie	New York City
Albany														
Rensselaer	1.0		7.3	20.9	24.5	33.5	43.0	49.8	52.5	58.2	64.2	68.3	74.4	149.8
Schodack Center	7.3	6.3		19.9	23.5	32.5	42.0	48.8	51.5	57.2	63.2	67.3	73.4	148.8
Kinderhook	20.9	13.6	13.6		3.6	17.2	26.2	35.7	42.5	48.8	51.5	52.5	58.2	64.2
Stuyvesant Falls	24.5	3.6	3.6	3.6		9.0	18.5	25.3	28.0	31.6	37.3	43.3	47.4	53.5
Hudson	33.5	12.6	12.6	12.6	9.0		9.5	16.3	19.0	24.7	30.7	34.8	40.9	49.9
Blue Store	43.0	9.5	9.5	9.5	9.5	9.5		6.8	9.5	15.2	21.2	25.3	31.4	49.9
Upper Red Hook	49.8	6.8	6.8	6.8	6.8	6.8	6.8		2.7	8.4	14.4	18.5	24.6	49.9
Red Hook	52.5	2.7	2.7	2.7	2.7	2.7	2.7	2.7		5.7	11.7	15.8	21.9	49.9
Rhinebeck	58.2	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7		6.0	10.1	16.2	53.5
Staatsburg	64.2	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0		4.1	10.2	53.5
Hyde Park	68.3	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1		6.1	53.5
Poughkeepsie	74.4	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1		53.5
New York City	149.8	148.8	142.5	128.9	125.3	116.3	106.8	100.0	97.3	91.6	85.6	81.5	75.4	53.5

DETROIT and SOUTH BEND OR ANYWHERE

An *abundance* of *enjoyable features* along the road, but an *over abundance* of *menacing features on the road*. Chances are a *thousand* to *one* in favor of the *menacing features* winning out—unless you squelch them.

You know that a succession of punctures and blow-outs will spoil the effect of *any trip* and ruffle the temper of a Saint—besides—tearing *big* holes in the pocket-book.

The *best* move *you* can make, *before* taking *any* trip—a block or a thousand miles—is to have your tires treated with

KEMIZITE

It Heals Punctures

The only absolute-harmless-permanent puncture healer

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Clean — odorless
Not a cement
Not gummy
Not sticky
Not a filler

Only small quantity needed
Does not reduce resiliency
Does not interfere with vulcanization
Eliminates 75% of blow-outs
Increases mileage

Proportion — 5% Kemizite — 95% Air

Thousands of auto owners are using *KEMIZITE* with *absolute satisfaction*. More down right enjoyment than they ever experienced with tires before, and at greatly *decreased* expense.

This is the move for *you* to make. No matter what you *remember* of the *past*—*do this now*. Investigate *KEMIZITE*—satisfy yourself. Remember a "money back" guarantee goes with it.

AUTO TIRE-SECURITY COMPANY
1231 Michigan Ave. = = = = Chicago

TABLE OF DISTANCES

	New York City	Yonkers	Hastings	Dobbs Ferry	Irvington	Tarrytown	Ossining	Croton	Peekskill	Cold Spring	Fishkill Village	WappingersFalls	Poughkeepsie	Albany
New York City	14.2	14.2	18.7	20.2	21.4	24.5	30.6	34.3	42.1	53.5	62.7	67.8	75.4	149.8
Yonkers	18.7	4.5	4.5	6.0	7.2	10.3	16.4	20.1	27.9	39.3	48.5	53.6	61.2	135.6
Hastings	20.2	6.0	1.5	1.5	2.7	5.8	11.9	15.6	23.4	34.8	44.0	49.1	56.7	131.1
Dobbs Ferry	21.4	7.2	2.7	1.2	1.2	4.3	9.2	12.9	20.7	29.0	32.1	37.2	44.8	119.2
Irvington	24.5	10.3	5.8	4.3	3.1	6.1	9.8	17.6	29.0	38.2	41.3	46.4	54.0	128.4
Tarrytown	30.6	16.4	11.9	10.4	9.2	6.1	3.7	7.8	19.2	28.4	33.5	41.1	50.9	125.3
Ossining	34.3	20.1	15.6	14.1	12.9	9.8	6.1	3.7	11.5	22.9	32.1	37.2	44.8	119.2
Croton	42.1	27.9	23.4	21.9	20.7	17.6	11.5	7.8	19.2	28.4	33.5	41.1	50.9	115.5
Peekskill	53.5	39.3	34.8	33.3	32.1	29.0	22.9	19.2	11.4	9.2	5.1	7.6	74.4	82.0
Cold Spring	62.7	48.5	44.0	42.5	41.3	38.2	32.1	28.4	20.6	9.2	5.1	7.6	74.4	82.0
Fishkill Village	67.8	53.6	49.1	47.6	46.4	43.3	37.2	33.5	25.7	14.3	5.1	7.6	74.4	82.0
WappingersFalls	75.4	61.2	56.7	55.2	54.0	50.9	44.8	41.1	33.3	21.9	12.7	7.6	74.4	82.0
Poughkeepsie	149.8	135.6	131.1	129.6	128.4	125.3	119.2	115.5	107.7	96.3	87.1	82.0	74.4	74.4
Albany	149.8	135.6	131.1	129.6	128.4	125.3	119.2	115.5	107.7	96.3	87.1	82.0	74.4	74.4

Table of Mileage

				MILES
South Bend to	Lakeville	.	.	10.5
"	" Lapaz	.	.	16.3
"	" Plymouth	.	.	24.5
"	" Argos	.	.	32.6
"	" Rochester	.	.	44.5
"	" Perrysburg	.	.	58.1
"	" Mexico	.	.	63.9
"	" Peru	.	.	69.8
"	" Bunker Hill	.	.	78.7
"	" Miami	.	.	82.5
"	" Kokomo	.	.	93.0
"	" Sharpsville	.	.	102.8
"	" Tipton	.	.	112.5
"	" Atlanta	.	.	118.4
"	" Arcadia	.	.	122.0
"	" Cicero	.	.	125.2
"	" Noblesville	.	.	131.5
"	" Indianapolis	.	.	155.2
Indianapolis to	Noblesville	.	.	23.7
"	" Cicero	.	.	30.0
"	" Arcadia	.	.	33.2
"	" Atlanta	.	.	36.8
"	" Tipton	.	.	42.7
"	" Sharpsville	.	.	52.4
"	" Kokomo	.	.	62.2
"	" Miami	.	.	72.7
"	" Bunker Hill	.	.	76.5
"	" Peru	.	.	85.4
"	" Mexico	.	.	91.3
"	" Perrysburg	.	.	97.1
"	" Rochester	.	.	110.7
"	" Argos	.	.	122.6
"	" Plymouth	.	.	130.7
"	" Lapaz	.	.	138.9
"	" Lakeville	.	.	144.7
"	" South Bend	.	.	155.2

Table of Distances

	MILES
South Bend to Lakeville . . .	10.5
Lakeville to Lapaz	5.8
Lapaz to Plymouth	8.2
Plymouth to Argos	8.1
Argos to Rochester	11.9
Rochester to Perrysburg	13.6
Perrysburg to Mexico	5.8
Mexico to Peru	5.9
Peru to Bunker Hill	8.9
Bunker Hill to Miami	3.8
Miami to Kokomo	10.5
Kokomo to Sharpsville	9.8
Sharpsville to Tipton	9.7
Tipton to Atlanta	5.9
Atlanta to Arcadia	3.6
Arcadia to Cicero	3.2
Cicero to Noblesville	6.3
Noblesville to Indianapolis . .	23.7

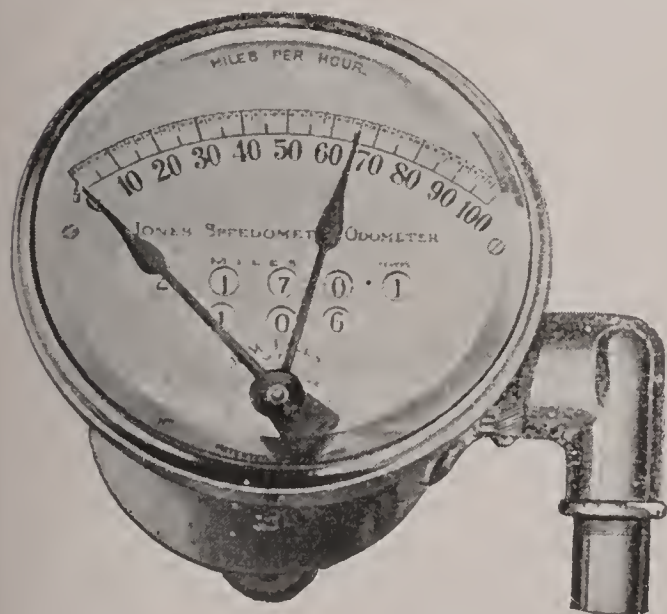
TURN TO RIGHT AND STOP



If your car is not equipped with a reliable speed-indicator. No use touring without the famous

JONES SPEEDOMETER

The BEST speed-indicator on the market. The PIONEER. The Winner of the R. A. C. Gold Medal for ACCURACY. The Jones is indispensable when touring because—it is absolutely reliable and dependable. It is used by the majority of motorists the world over. It is part equipment of practically every car on tour. See that you have a Jones on your dash. By means of the Odometer you can compute the distance cited on the maps—and you KNOW your speed at all times under all conditions.



*Write for folder containing
illustrations and prices of all
models.*

**Jones Speedometer Dept.
United Manufacturers, Inc.**

Broadway and 76th Street
New York

Table of Distances

TOLEDO—DETROIT

	MILES
Toledo to Erie	11.1
“ “ Monroe	20.9
“ “ Trenton	41.7
“ “ Wyandotte	46.2
“ “ Detroit	57.0

Detroit to Wyandotte	10.8
“ “ Trenton	15.3
“ “ Monroe	36.1
“ “ Erie	45.9
“ “ Toledo	57.0

Toledo to Erie	11.1
Erie to Monroe	9.8
Monroe to Trenton	20.8
Trenton to Wyandotte	4.5
Wyandotte to Detroit	10.8

Table of Mileage

ALBANY—SARATOGA SPRINGS

	MILES
Albany to Cohoes	12.2
“ “ Waterford	14.2
“ “ Mechanicsville	22.6
“ “ Maltaville	28.6
“ “ Dunning Street	30.8
“ “ Saratoga Springs	38.6
Saratoga Springs to Dunning Street	7.8
“ “ “ Maltaville	10.0
“ “ “ Mechanicsville	16.0
“ “ “ Waterford	24.4
“ “ “ Cohoes	26.4
“ “ “ Albany	38.6

Table of Distances

ALBANY—SARATOGA SPRINGS

	MILES
Albany to Cohoes	12.2
Cohoes to Waterford	2.0
Waterford to Mechanicsville	8.4
Mechanicsville to Maltaville	6.0
Maltaville to Dunning Street	2.2
Dunning Street to Saratoga Springs	7.8

VIVAX STORAGE BATTERIES



6 VOLT 80 AMPERES
SPECIALLY BUILT FOR
LIGHTING PURPOSES

PRICE-----\$24.00

WE GUARANTEE SATISFACTION

Why The "VIVAX" Excels

Mechanical Strength; Perfect Insulation; Compact and Clean;
No Corrosion of Terminals; Free from Mechanical Defects, or
Faulty Workmanship.

The "VIVAX" Battery is especially built to withstand
the constant jar of the Automobile and may be used on the
heaviest truck or the lightest pleasure Vehicle.

VIVAX IGNITION BATTERIES

6 Volt 60 Amperes-----	\$20.00
6 Volt Special-----	15.00
6 Volt Junior-----	11.50



Manufactured by

VIVAX STORAGE BATTERY CO.

2224-2234 Michigan Avenue

- CHICAGO, ILLINIOS

Population of Towns

CHICAGO—SOUTH BEND

Chicago . . .	2,049,185
Hammond . . .	15,956
Highlands . . .	25
Hobart . . .	1,390
Wheeler . . .	100
Valparaiso . . .	6,280
Westville . . .	468
La Porte . . .	7,113
New Carlisle . . .	597
South Bend . . .	36,000

Population of Towns

TOLEDO—CLEVELAND

[illegible]

Population of Towns

CLEVELAND—BUFFALO

Cleveland, O.	.	.	.	381,768
Willoughby, O.	.	.	.	1,753
Mentor, O.	.	.	.	624
Painesville, O.	.	.	.	5,024
Geneva, O.	.	.	.	2,342
Ashtabula, O.	.	.	.	12,949
Conneaut, O.	.	.	.	7,133
West Springfield, Pa.	.	.	.	203
East Springfield, Pa.	.	.	.	591
Girard, Pa.	.	.	.	691
Fairview, Pa.	.	.	.	327
Erie, Pa.	.	.	.	52,733
Wesleyville, Pa.	.	.	.	567
Harbour Creek, Pa.	.	.	.	161
North East, Pa.	.	.	.	2,068
Ripley, N.Y.	.	.	.	810
Westfield, N.Y.	.	.	.	2,430
Portland, N.Y.	.	.	.	552
Brocton, N.Y.	.	.	.	900
Fredonia, N.Y.	.	.	.	4,127
Sheridan, N.Y.	.	.	.	100
Silver Creek, N.Y.	.	.	.	1,944
Irving, N.Y.	.	.	.	50
Buffalo, N.Y.	.	.	.	352,387

Population of Towns

BUFFALO—SYRACUSE

Buffalo	352,387
Snyder	50
Williamsville	905
Clarence	670
Pembroke	310
East Pembroke	405
Batavia	9,180
Byron	342
Bergen	624
Churchville	505
North Chili	101
Rochester	162,608
Pittsford	1,000
Egypt	162
Macedon	592
Palmyra	1,937
Port Gibson	50
Phelps	1,306
West Junius	29
Magee Corners	61
Auburn	30,345
Sennett	403
Elbridge	549
Camillius	567
Syracuse	108,374

Population of Towns

SYRACUSE—ALBANY

Syracuse	.	.	.	.	.	.	.	117,493
De Witt	.	.	.	.	.	.	.	2,509
Fayetteville	.	.	.	.	.	.	.	1,304
Mycenae	.	.	.	.	.	.	.	50
Chittenango	.	.	.	.	.	.	.	787
Sullivan	.	.	.	.	.	.	.	159
Canastota	.	.	.	.	.	.	.	3,030
Oneida	.	.	.	.	.	.	.	3,420
Oneida Castle	.	.	.	.	.	.	.	291
Sherill	.	.	.	.	.	.	.	230
Vernon	.	.	.	.	.	.	.	380
Kirkland	.	.	.	.	.	.	.	132
New Hartford	.	.	.	.	.	.	.	1,007
Utica	.	.	.	.	.	.	.	62,935
Deerfield	.	.	.	.	.	.	.	691
West Shuyler	.	.	.	.	.	.	.	261
East Shuyler	.	.	.	.	.	.	.	108
Frankfort	.	.	.	.	.	.	.	2,664
Ilion	.	.	.	.	.	.	.	5,138
Herkimer	.	.	.	.	.	.	.	5,555
Little Falls	.	.	.	.	.	.	.	11,122
St. Johnsville	.	.	.	.	.	.	.	1,873
Nelliston	.	.	.	.	.	.	.	634
Palatine Bridge	.	.	.	.	.	.	.	360
Fonda	.	.	.	.	.	.	.	1,145
Amsterdam	.	.	.	.	.	.	.	23,923
Scotia	.	.	.	.	.	.	.	361
Schenectady	.	.	.	.	.	.	.	58,369
Albany	.	.	.	.	.	.	.	98,370

Population of Towns

ALBANY—NEW YORK CITY

Albany	.	.	.	.	.	.	98,370
Rensselaer	.	.	.	.	.	.	10,715
Schodack Center			.	.	.	.	102
Kinderhook	.	.	.	.	.	.	913
Stuyvesant Falls			.	.	.	.	792
Stockport	.	.	.	.	.	.	481
Stottville	.	.	.	.	.	.	1,069
Hudson	.	.	.	.	.	.	10,290
Blue Store	.	.	.	.	.	.	134
Upper Red Hook			.	.	.	.	75
Red Hook	.	.	.	.	.	.	857
Rhinebeck	.	.	.	.	.	.	1,449
Staatsburg	.	.	.	.	.	.	479
Hyde Park	.	.	.	.	.	.	2,873
Poughkeepsie	.	.	.	.	.	.	25,379
Wappingers Falls			.	.	.	.	3,504
Fishkill Village	.	.	.	.	.	.	589
Nelsonville	.	.	.	.	.	.	624
Cold Spring	.	.	.	.	.	.	2,067
Peekskill	.	.	.	.	.	.	10,562
Buchanan	.	.	.	.	.	.	75
Croton	.	.	.	.	.	.	100
Ossining	.	.	.	.	.	.	7,939
Tarrytown	.	.	.	.	.	.	4,770
Irvington	.	.	.	.	.	.	2,231
Dobbs Ferry	.	.	.	.	.	.	2,888
Hastings	.	.	.	.	.	.	2,002
Yonkers	.	.	.	.	.	.	61,716
New York City	.	.	.	.	.	.	4,014,304

Population of Towns

ALBANY—SARATOGA SPRINGS

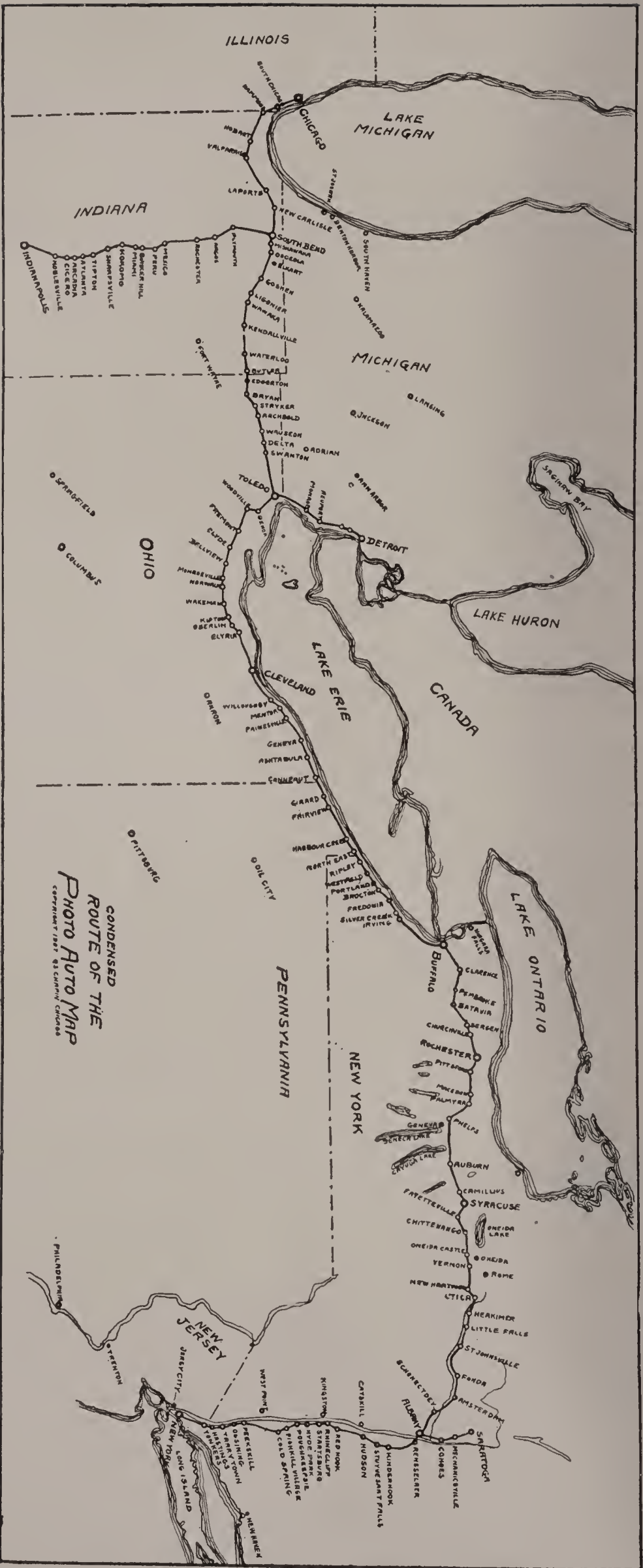
Albany	.	.	.	.	98,360
Cohoes	.	.	.	.	24,183
Waterford	.	.	.	.	3,146
Mechanicsville	.	.	.	.	4,695
Maltaville	.	.	.	.	92
Dunning Street	.	.	.	.	50
Saratoga Springs	.	.	.	.	12,538

Population of Towns

SOUTH BEND—INDIANAPOLIS

South Bend	.	.	.	.	.	36,000
Lapaz	.	.	.	.	.	400
Plymouth	.	.	.	.	.	3,656
Argos	.	.	.	.	.	1,307
Rochester	.	.	.	.	.	3,421
Perrysburg	.	.	.	.	.	700
Mexico	.	.	.	.	.	500
Peru	.	.	.	.	.	11,648
Bunker Hill	.	.	.	.	.	568
Miami	.	.	.	.	.	390
Kokomo	.	.	.	.	.	12,019
Sharpsville	.	.	.	.	.	650
Tipton	.	.	.	.	.	3,764
Atlanta	.	.	.	.	.	1,500
Arcadia	.	.	.	.	.	1,413
Cicero	.	.	.	.	.	1,603
Noblesville	.	.	.	.	.	4,792
Indianapolis	.	.	.	.	.	219,154

Condensed Route of the Photo-Auto Maps



No. 131



COLONIAL HOTEL, CLEVELAND, OHIO

From Superior Avenue and Public Square, go to Southeast end of Square where Euclid Avenue begins, then up Euclid Avenue to Sheriff Street, one-eighth of a mile, turn to right up Sheriff Street to Prospect Avenue, then left to Plate, Colonial Hotel. Leave Hotel on LEFT going east to Euclid Avenue and continue out Euclid Avenue to University Circle. (Plate).

Memo

No. 132



Turn LEFT at University Circle. Follow circle to first street with car tracks and turn left into Euclid Avenue. Euclid is six and three-tenths miles. Wickliff ten miles. Next photo in Willoughby, fifteen miles.

Memo.

No. 133



WILLOUGHBY

Turn RIGHT and East from Main Street. Large red brick house on left after turning. Mentor four and seven-tenths miles. Next photo in Painesville, eleven miles.

emo

No. 134



PAINESVILLE

Turn LEFT from Main Street with the car tracks.
photo two-tenths of a mile.

Memo

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No. 135



Turn RIGHT at street where car tracks fork. Next p
six and two-tenths miles.

No. 136



up to LEFT at fork. North Madison five and nine-tenths miles. Geneva eleven and three-tenths miles. Next photo entering Ashtabula, twenty and six-tenths miles.

no -----

No. 137



ASHTABULA

turn RIGHT and follow car tracks entering Ashtabula. Chapman House and garage on left before making next turn. Next photo at end of street, six-tenths of a mile.

No. 138



Turn LEFT at end of street. Next photo one block.

Memo

No. 139



Turn RIGHT and cross bridge. Next photo at end of road
five-tenths of a mile.

No. 140



Turn LEFT and North at end of road. Next photo at square in village of Ashtabula, seven-tenths of a mile.

Memo

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No. 141



Turn RIGHT at square. Follow road around two sides of square and turn right into main road. Kingsville four and nine-tenths miles. Amboy nine and three-tenths miles. Next photo entering Conneaut, twelve and two-tenths miles.

No. 142



CONNEAUT

Turn RIGHT and follow car tracks into Conneaut. Go straight through town. Next photo four and four-tenths miles.

Memo

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No. 143



Turn RIGHT and follow car tracks. West Springfield five miles. East Springfield nine and four-tenths miles. Next photo eight and three-tenths miles.

No. 144



STRAIGHT AHEAD. West Girard one and six-tenths miles,
Girard two and two-tenths miles. Fairview six and five-
tenths miles. Next photo eight and seven-tenths miles.

no

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No. 145



Turn LEFT at fork and go down hill. DANGER! Go slow.
Next photo in Erie, nine and four-tenths miles.

No. 146



ERIE

Turn LEFT from Twenty-sixth Street into Peach Street.
Next photo three-tenths of a mile.

Memo

No. 147



Turn RIGHT from Peach Street into Eighteenth Street. For main part of city and Reed House turn left at next corner. Go through park and turn right. Reed House on left, half a block after turning. H. T. Raser's garage one block to right on French Street, after passing Reed House.

For Buffalo go straight ahead after making turn in photo No. 147. Wesleyville four and one-tenth miles. Harbour Creek seven and nine-tenths miles. North East fifteen and one-tenth miles. Next turn at end of road, eighteen and eight-tenths miles.

Remo



THE REED HOUSE, ERIE, PA.

This is the best and largest hotel in Erie. Centrally located in the heart of the business and shopping district. Special attention is given to tourists.



H. T. RASER GARAGE

This is the best garage in Erie. Located on French Street, half a block from the Reed House. Repairs and supplies of all kinds.

No. 148



Turn LEFT at end of road and go down steep hill. DANGER!
Go slow. Ripley five and two-tenths miles. Westfield
twelve and two-tenths miles. Next photo at West Port-
land, fifteen and nine-tenths miles.

Memo

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No. 149



Take LEFT fork at West Portland. Portland three and five-
tenths miles. Brocton five and one-tenth miles. Fredonia
twelve miles. Sheridan seventeen and two-tenths miles.
Next photo in Silver Creek, twenty-four and one-tenth miles.

No. 150



SILVER CREEK

Turn RIGHT at Silver Creek. Silver Creek House offers the best accommodations for tourists. Next turn at top of hill two-tenths of a mile.

Memo

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No. 151



Turn LEFT at top of hill. Next photo two and six-tenths miles.

No. 152



Turn LEFT and follow main road. Next photo in Irving,
six-tenths of a mile.

Memo

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No. 153



IRVING

Turn LEFT and North. Next photo sixteen and six-tenths
miles.

No. 154



Turn LEFT. Follow wires. Go one-tenth of a mile to end of road and turn left. Follow lake shore road to next photo entering Buffalo, eight and four-tenths miles.

Memo

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No. 155



BUFFALO

Turn RIGHT with car tracks opposite steel mill. Next photo across bridge, nine-tenths of a mile.

No. 156



Turn LEFT and enter park into first street after crossing bridge. Follow drive to greenhouse. Next photo leaving park, seven-tenths of a mile.

Memo.....

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No. 157



Turn RIGHT at greenhouse and follow boulevard to next photo, one and four-tenths miles.

No. 158



Take LEFT fork. Next photo nine-tenths of a mile.

Memo

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No. 159



Take LEFT fork and turn right on leaving park. Next photo first street after leaving park.

No. 160



Turn LEFT from South Park Avenue into Abbot Road.
Next photo one and seven-tenths miles.

Memo

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No. 161



Turn RIGHT with car tracks. Next photo second street
after crossing double viaduct, four-tenths of a mile.

No. 162



Turn RIGHT from Elk Street into Hamburg Street. Turn left at end of Hamburg Street into Swan Street. This photo Main Street, one and six-tenths miles.

Memo

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No. 163



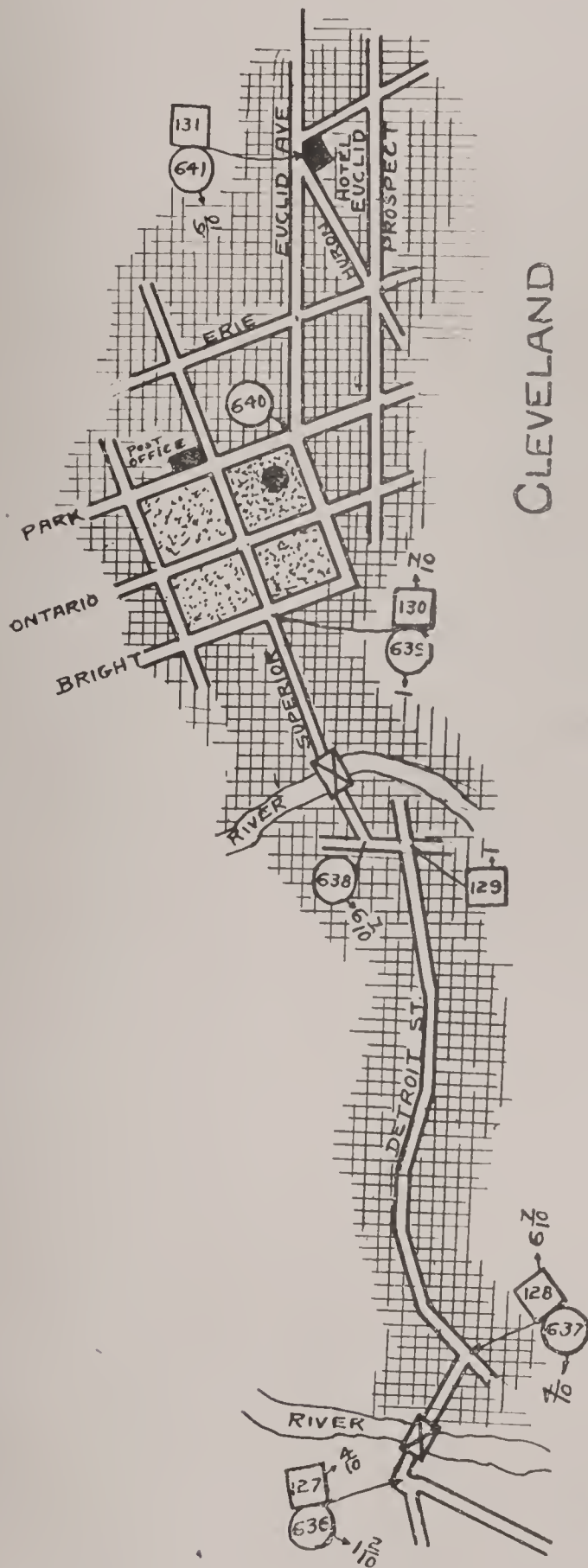
Turn RIGHT from Swan Street into Main Street. Iroquois Hotel two blocks. "O. K." Garage one mile on right-hand side of Main Street.

No. 164



THE IROQUOIS HOTEL, BUFFALO, N. Y.

STARTING POINT for run from Buffalo to Albany. This is the best hotel in Buffalo for the accommodation of tourists. European plan and everything first-class. Located on Main Street, in the heart of the business and shopping district.



CLEVELAND



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 PLATE No. 13
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 CHICAGO

FOR CONTINUATION
 SEE PLATE No. 12

FOR CONTINUATION
SEE PLATE No. 15



PHOTO AUTO MAP
PLATE No. 14
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CHICAGO

FOR CONTINUATION
SEE PLATE No. 16

VILLAGE OF
ASHTABULA

ASHTABULA

CHAPMAN
HOUSE

SCHOOL

GENEVA

NORTH MADISON

CEMETARY

SCHOOL

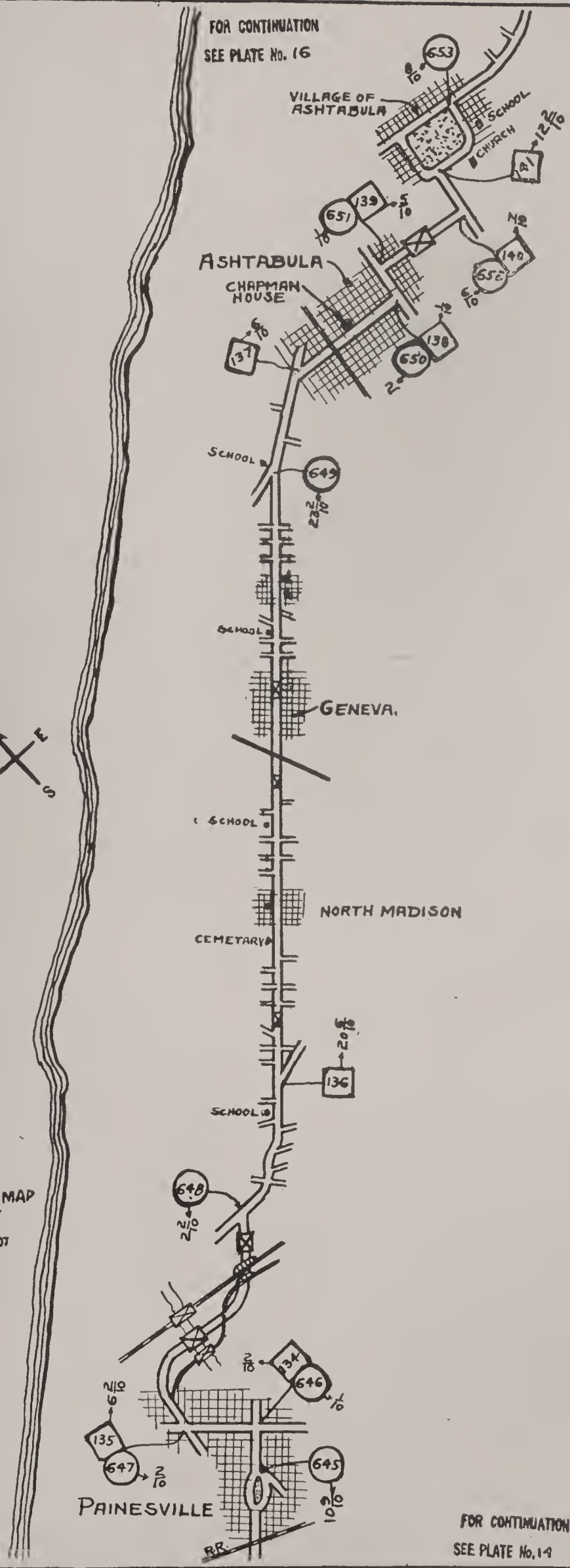
PAINESVILLE

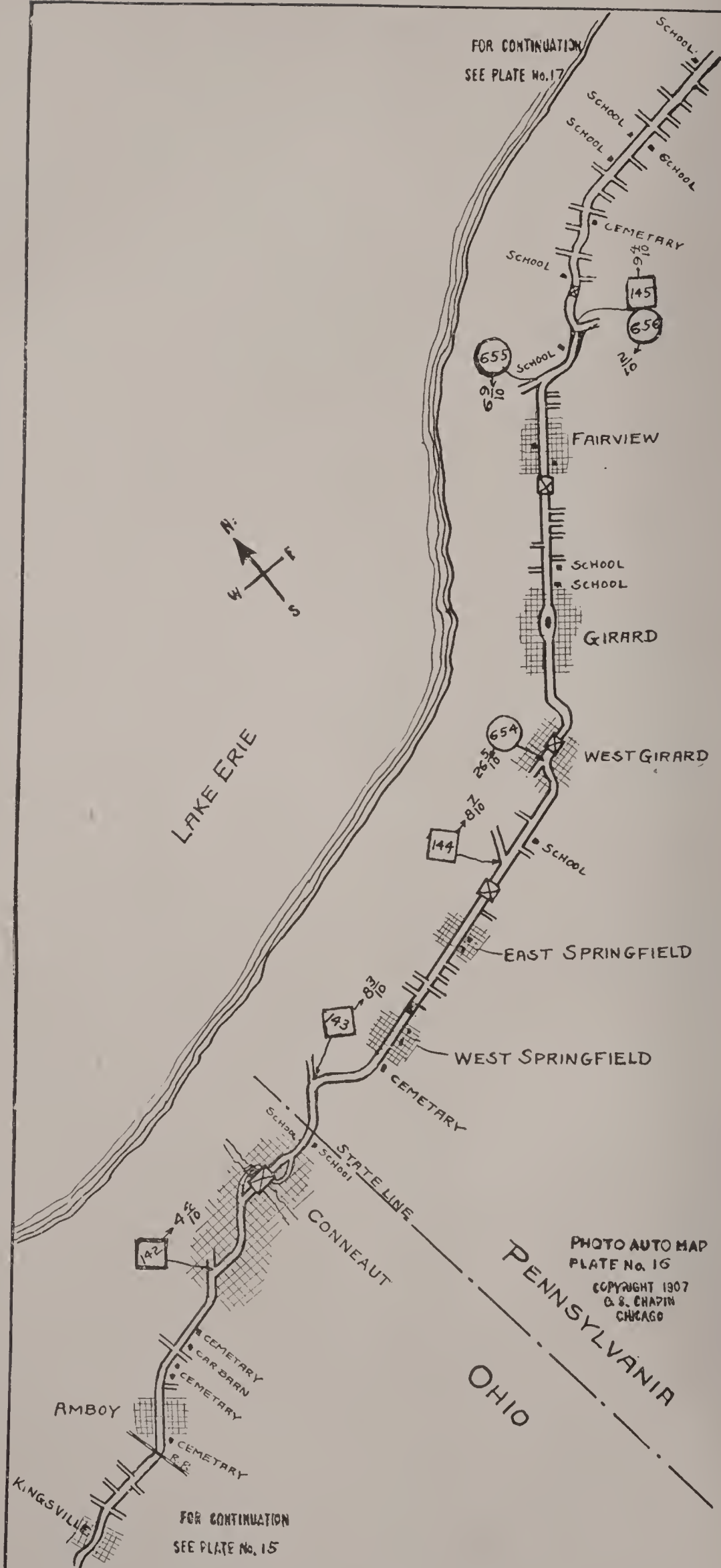
FOR CONTINUATION
SEE PLATE No. 14

LAKE ERIE

PHOTO AUTO MAP
PLATE No. 15

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CHICAGO





FOR CONTINUATION
SEE PLATE No. 18

LAKE ERIE



PORTLAND
WEST PORTLAND
CHURCH
CEMETARY
24 1/10
149

WESTFIELD

RIPLEY

SCHOOL
CHURCH
CEMETARY

NEW YORK

PENNSYLVANIA

NORTH EAST

15 1/10
148
659
18 1/10

CEMETARY
CEMETARY
HARBOUR CREEK
SCHOOL
CHURCH

CHURCH
SCHOOL
WESLEYVILLE

PHOTO AUTO MAP
PLATE No. 17
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REED HOUSE
GARAGE
FRENCH ST
STATE
PEACH
ERIE
18 1/10
26 1/10
147
658
146
657
9 1/10

FOR CONTINUATION
SEE PLATE No. 16

FOR CONTINUATION
SEE PLATE No. 19



LAKE ERIE

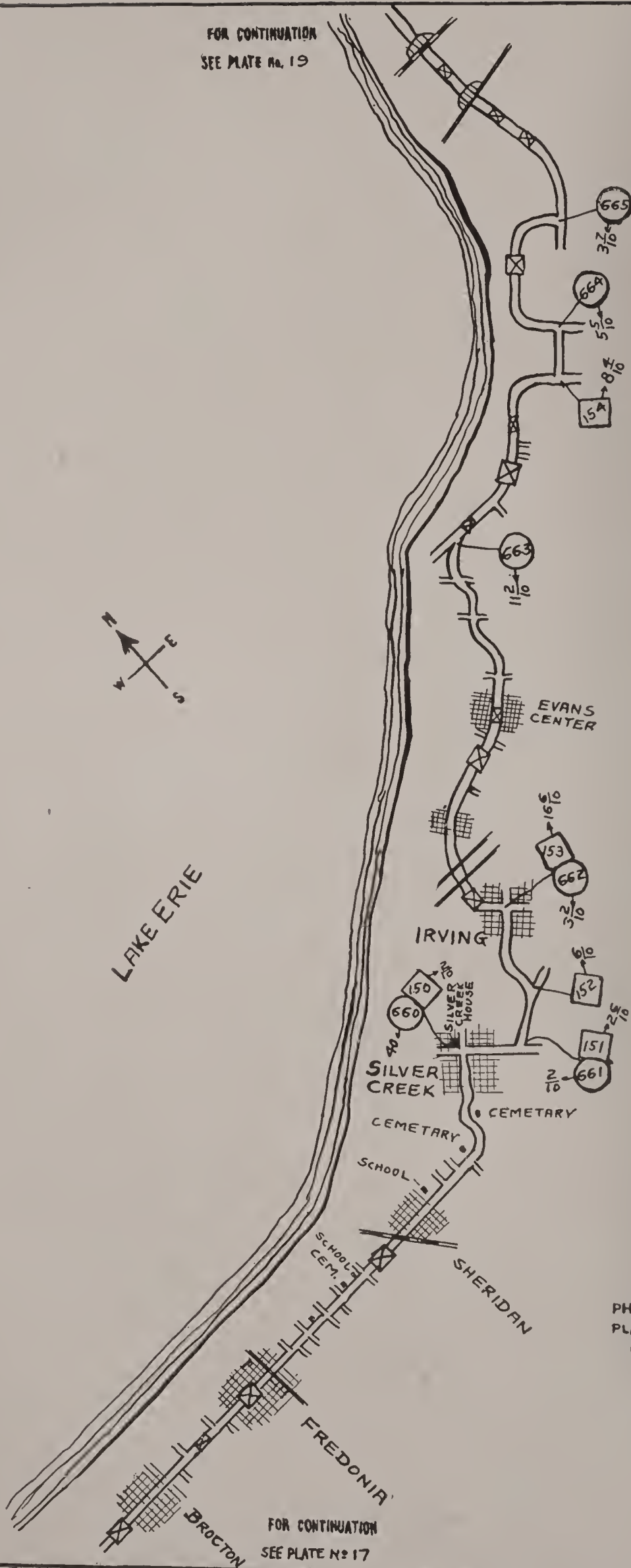


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CHICAGO

FOR CONTINUATION
SEE PLATE No. 17

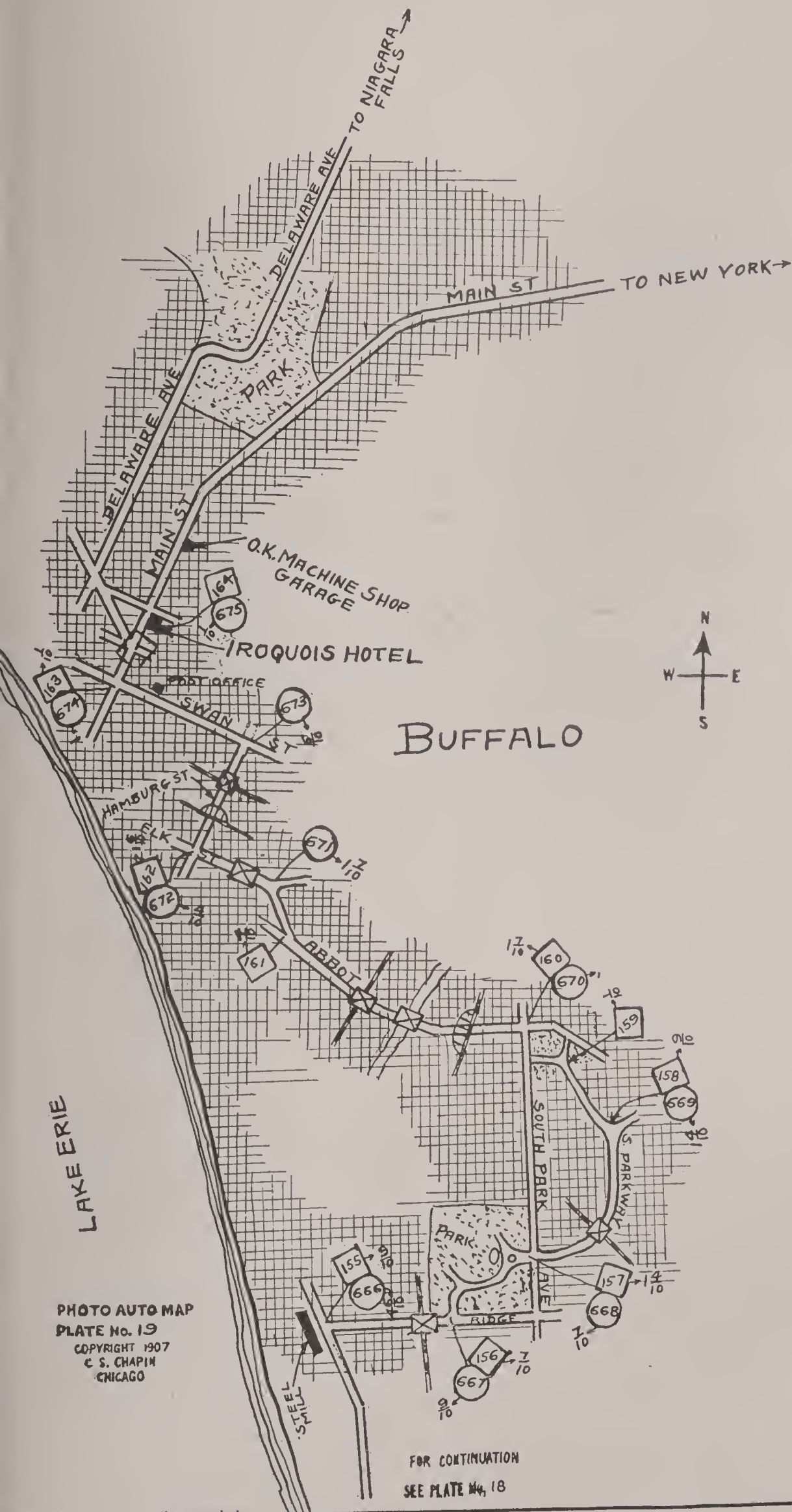


PHOTO AUTO MAP
PLATE No. 19
COPYRIGHT 1907
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CHICAGO

FOR CONTINUATION
SEE PLATE No. 18

FOR CONTINUATION
SEE PLATE No. 21

EAST PEMBROKE

PEMBROKE

SCHOOL

CEM.

SCHOOL

CLARENCE

R.R.

R.R.

CEM

WILLIAMSVILLE

R.R.

SNYDER

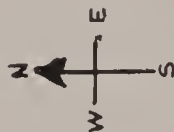
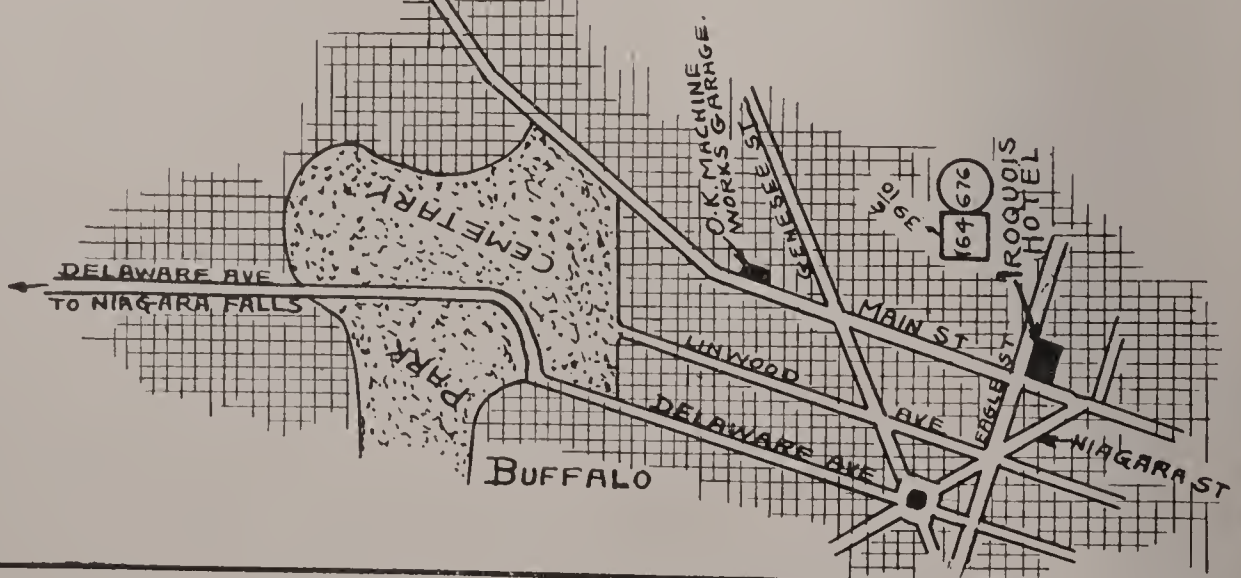


PHOTO AUTO MAP
PLATE No. 20
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CHICAGO



FOR CONTINUATION
SEE PLATE No. 19

PHOTO-AUTO MAPS

BUFFALO TO CLEVELAND

No. 675



THE IROQUOIS HOTEL, BUFFALO, N. Y.

STARTING POINT for run from Buffalo to Cleveland

This is the best hotel in Buffalo for the accommodation of tourists. European plan, with Cafe, Restaurant and Grill Room in connection. Leave the Iroquois Hotel on the LEFT. Next turn two blocks.

Memo-----



STANDARD GARAGE CO.

1114-1116 MAIN STREET, BUFFALO, N. Y.

Leave the Iroquois Hotel and go NORTH over Main St. About one mile finding garage on left hand side of street number 1114-1116 Main St. The largest garage in Buffalo, open day and night for supplies and repairs. Absolutely fireproof. Special attention given to tourists.

mo

No. 674



Turn LEFT from Main Street into Swan Street. Next photo one mile.

Memo

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No. 673



Turn RIGHT from Swan Street into Hamburg Street. Hamburg Street is two blocks before Swan Street runs under railroad. Next turn six-tenths of a mile.

No. 672



Turn LEFT from Hamburg Street into Elk Street. Next photo at end of viaduct, four-tenths of a mile.

Memo

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No. 671



Take RIGHT fork at end of viaduct. Next photo at small park, one and seven-tenths miles.

No. 670



Turn RIGHT at park from Abbot Road into South Park Avenue. Then turn left into park at first driveway. Next photo one mile.

Memo

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No. 669



Take RIGHT drive at fork. Next photo entering park, one and four-tenths miles.

No. 668



Turn LEFT at greenhouse. Keep to left until to end of park.
Next photo leaving park, seven-tenths of a mile.

Memo

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No. 667



Turn RIGHT and cross bridge. Next photo at end of street,
nine-tenths of a mile.

No. 666



Turn LEFT at end of street. Steel mill on right after turning. Next photo four and six-tenths miles.

Memo

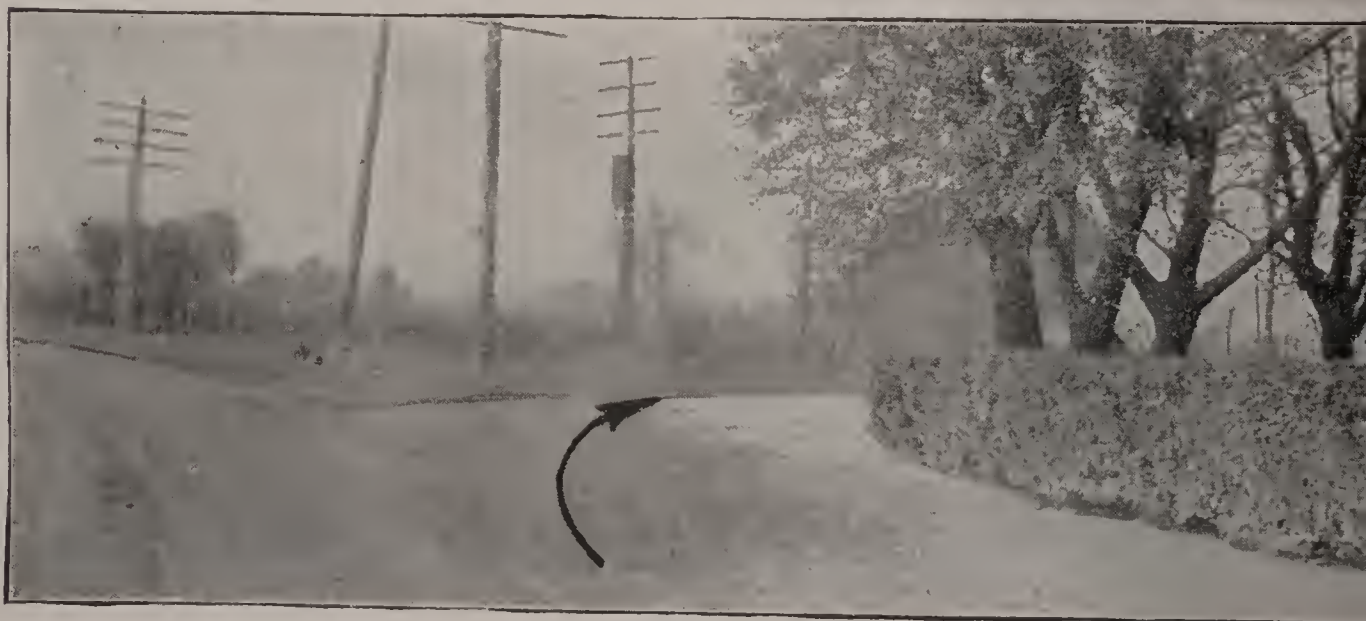
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No. 665



Turn RIGHT. Hospital on right. Next photo three and seven-tenths miles.

No. 664



Turn RIGHT and follow wires. Go one-tenth of a mile to
end of road and turn right. Next photo five and five-
tenths miles.

Memo

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No. 663



Turn LEFT. Follow the wires. Next photo in Irving, eleven
and two-tenths miles.

No. 662



IRVING

Turn RIGHT one block after crossing bridge. Next photo entering Silver Creek, three and two-tenths miles.

Memo

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No. 661



SILVER CREEK

Turn RIGHT at end of road entering Silver Creek. Next photo at Silver Creek House, two-tenths of a mile.

No. 660



Turn LEFT at square. Silver Creek House on right of turn. Good accommodations for tourists. Sheridan six and two-tenths miles. Fredonia twelve and one-tenth miles. Brocton nineteen miles. Portland twenty and six-tenths miles. Westfield twenty-seven and eight-tenths miles. Ripley thirty-four and eight-tenths miles. Next photo forty miles.

Memo

No. 659



Turn RIGHT at top of steep hill just before reaching railroad embankment. North East three and seven-tenths miles. Harbour Creek ten and nine-tenths miles. Wesleyville fourteen and seven-tenths miles. Next photo in Erie, eighteen and eight-tenths miles.

No. 658



ERIE

Turn LEFT from Eighteenth Street into Peach Street. Next photo for Cleveland, three-tenths of a mile. To go into main part of Erie, turn right into State Street, one block before this turn. Go up State Street through small park and turn right into North Park Road. Reed House one half-block. H. T. Raser Garage one half-block to right on French Street, after passing Reed House.

Memo

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or printed text on the paper.

[illegible]

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THE REED HOUSE, ERIE, PA.

This is the best hotel in Erie. Centrally located in the heart of the business and shopping district. Special attention given to tourists.



H. T. RASER GARAGE

This is the best garage in Erie. Located on French Street, half a block from the Reed House. Repairs and supplies of all kinds.

No. 657



Turn RIGHT from Peach Street into Twenty-sixth Street

Next photo at top of steep hill, nine and four-tenths mile

Memo

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No. 656



Turn RIGHT at top of steep hill. Next photo two-tenths of a mile.

No. 655



Turn LEFT. Follow wires. Fairview two miles. Girard six and three-tenths miles. Next photo in West Girard, six and nine-tenths miles.

mo -----

No. 654



Turn LEFT after crossing small bridge in West Girard. East Springfield four and nine-tenths miles. West Springfield nine and three-tenths miles. Conneaut thirteen and five-tenths miles. Amboy seventeen and two-tenths miles. Kingsville twenty-one and six-tenths miles. Next photo in village of Ashtabula, twenty-six and five-tenths miles.

No. 653



Turn LEFT at square in village of Ashtabula. Follow road around two sides of square and turn left into road with car tracks. Next photo eight-tenths of a mile.

Memo

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No. 652



Turn RIGHT with car tracks. Next photo at end of street Ashtabula, six-tenths of a mile.

No. 651



ASHTABULA

Turn LEFT at end of street. Next photo one block.

Memo

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No. 650



Turn RIGHT from Main Street. Chapman House two blocks on right-hand side of street. Best accommodations in Ashtabula. Next photo two miles.

No. 649



STRAIGHT AHEAD on left road. Geneva seven and nine tenths miles. North Madison thirteen and three-tenths miles. Next photo twenty-three and two-tenths miles.

Memo

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No. 648



Turn LEFT. Go down hill and cross bridge. Next photo in Painesville, two and two-tenths miles.

No. 647



PAINESVILLE

Turn LEFT with car tracks. Next photo two-tenths of a mile.

Memo

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No. 646



Turn RIGHT into Main Street. Next photo at park, one-tenth of a mile.

No. 645



Take RIGHT street at park and follow car tracks. Ment
six and two-tenths miles. Next turn in Willoughby, t
and nine-tenths miles.

Memo

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No. 644



WILLOUGHBY

Turn LEFT into Main Street. Next photo at monume
one-tenth of a mile.

No. 643



Take RIGHT street at monument. Wickliff five miles.
Euclid eight and seven-tenths miles. Next photo in Cleve-
land, fifteen miles

Memo

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No. 642



CLEVELAND

From University Circle follow car line on down Euclid
Avenue about four miles to Colonial Hotel, situated on
Prospect Avenue. (Huron Road from Euclid Avenue
into Prospect Avenue.)

No. 641



COLONIAL HOTEL, CLEVELAND, OHIO

STARTING POINT for run from Cleveland to Toledo.

The Colonial Hotel is a strictly first class, quiet, modern, fireproof Hotel. American and European plans with splendid restaurants. From Hotel go WEST to Ontario Street, then turn RIGHT to Public Square and next plate.

Memo _____

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**MORE
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ORDINARY**



¶ To be free from the most frequent of road trouble, dirty, sooty, short-circuited plugs, is a pleasure which is yours if you will use Reliance Spark Plugs.

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YOUR OLD CASING

is good enough for **5000 miles** more if
equipped with a

Triple Tread



This is a worn out casing as it comes to us to be **MADE NEW**

3-ply steel studded, specially prepared leather and made a part of the old tire.

Puncture proof and **non-skid**.

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Guaranteed 5000 miles.

Cummer's Perfect Elastic Auto Top Gloss



Automobile, Carriage Top and Upholstery Dressing

For all kinds of Leather, Pantasote or Rubber.

For Tops, Seats Guards, Straps and Upholstery

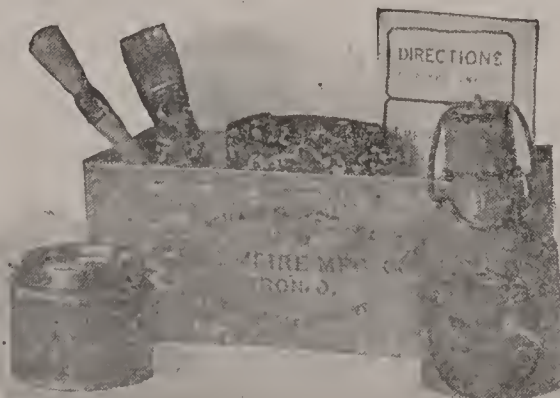
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Does not crack or come off. Perfectly waterproof. Dries in thirty minutes. Any one can do the work.

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\$3.00 per gallon
\$1.75 per half gallon
90c per quart
Or With Cash Order



AKRON REPAIR KIT—\$1.00 Complete

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NO MORE FLAT TIRES

Just Carry an AKRON REPAIR KIT

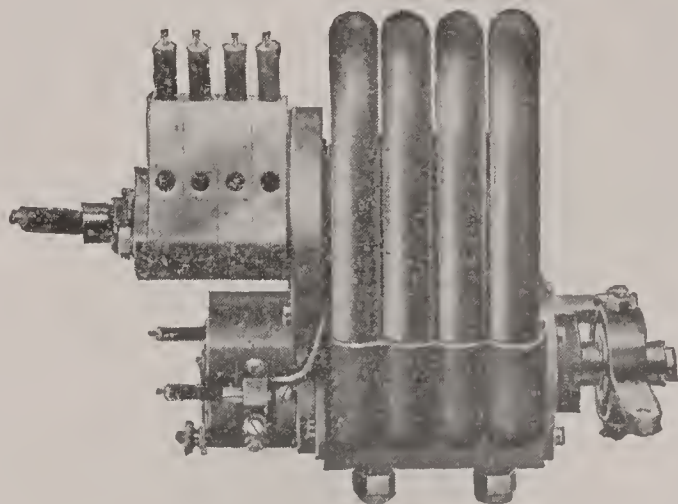
An acid cure process that vulcanizes the cement to the rubber, making it one solid piece, and by which any repair to your inner tube or casing is permanently made at any time and any place. **YOU ARE ON YOUR WAY IN A MOMENT**—and there is no hard work about it either, doesn't even soil your hands. Heat, moisture or hard usage will absolutely not affect a repair properly made with this cement and solution, and it's not injurious to the finest quality rubber.

A SEASON'S SUPPLY FOR THE MOTORIST all put up in a handy little box, with all needed tools, rubber patches, etc. For sale by dealers and jobbers. If your dealer does not handle it, write direct.

Write us about the "Akron" Tire Boot and "Akron" Inside Repair Patch. We also manufacture the "Hold Tight" Aluminum Vise for inner tube patching. Price, delivered, \$1.25.

A HEINZE MAGNETO

Will make a new motor
out of your old one



HEINZE ELECTRIC CO.

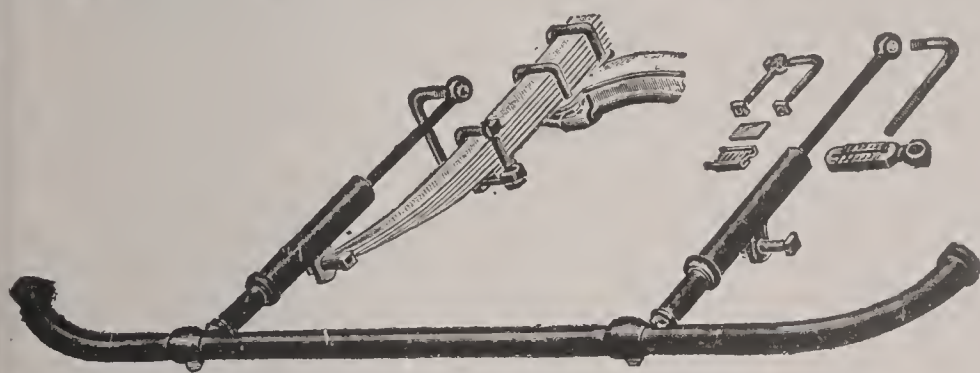
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Western Distributors

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An Economical
Insurance
against loss
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Attractive in Design
Easily Attached

No Drilling of Frame
Fits All Cars

Has the points of merit of others as
well as valuable features of its own

LOWEST IN PRICE YET SELLS ON ITS MERITS

SOLD ONLY THROUGH DEALERS

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ROCHESTER SAFETY LOCK FOR AUTOMOBILES

"A Lock that Locks"

It is not necessary to drill your steering bar full of holes. Only one hole to drill and the lock is ready to place in position. Interchangeable combination. THIEF PROOF. Absolutely keyless. Ask your dealer or write direct for descriptive matter.



MOTOR CAR SUPPLY CO.

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Michigan Avenue

CHICAGO AGENTS

Our four-tumbler adjustable hasp Key Auto Lock will lock any automobile, motor cycle, bicycle, steamship gear, or can be used as a padlock. Also THIEF PROOF. Ask your dealer for prices or write us direct for descriptive matter.

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ROCHESTER, IND.

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that over sixty leading manufacturers of
automobiles would use and recommend



for transmissions and bearings if these
lubricants did not show best results in
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for cylinder lubrication accomplishes what is
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FIVE —GOOD— REASONS WHY

"THAT STRANG" SPARK PLUG SHOULD BE USED BY YOU

- 1.—"THAT" BROAD GUARANTEE The No-Trubble Plug
We hereby agree to replace any plug that fails to work
or is defective in any manner whatsoever within one year
from date of purchase.
- 2.—It is designed by LEWIS STRANG—THE WINNER—
Who KNOWS HOW A SPARK PLUG should be made
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- 4.—THE BODY IS BRASS—will never rust
and last, but not least.
- 5.—THE EASIEST PLUG TO CLEAN.

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WRITE US AND WE WILL See that you are supplied

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Keep Your Auto Radiator and
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Automobile Radiator
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Canister, \$1.00

You can't afford to ruin your expensive
Radiator and Water Jacket through corrosion,
when it can be prevented for so small a cost.

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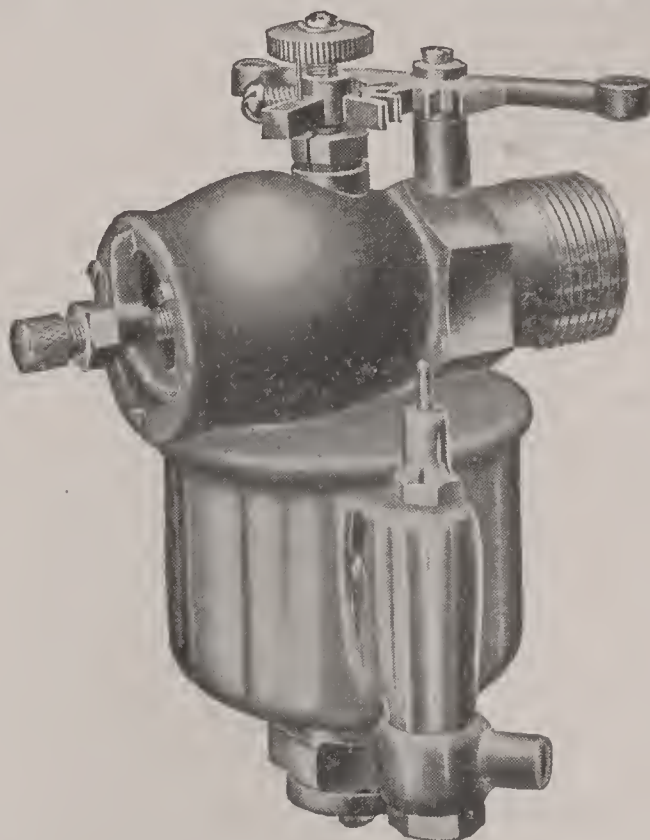
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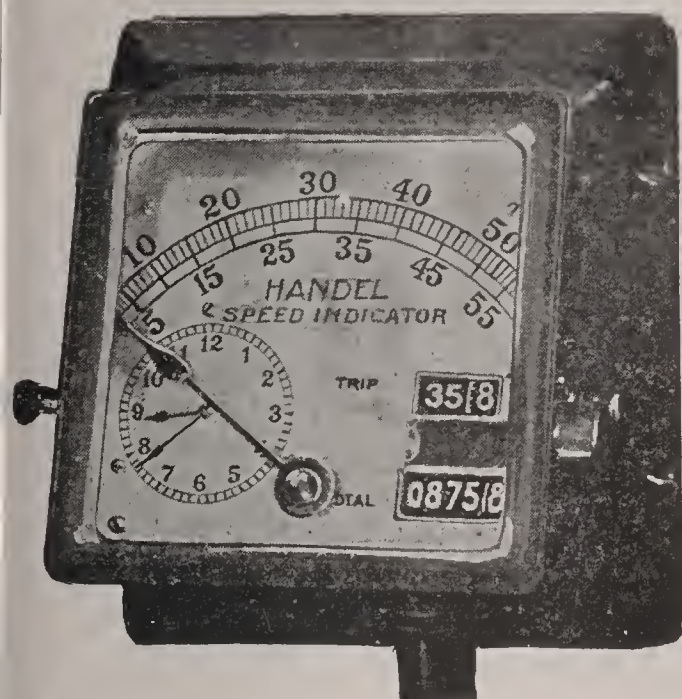
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It is absolutely accurate

It is simply and compactly
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It does not get out of order

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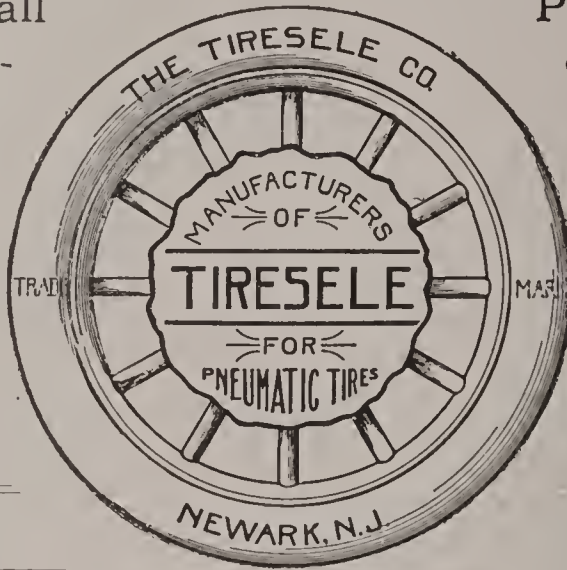
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PREVENTS DELAY—LINGER AND WAIT—

takes care of all
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Shoe. Also Motor
and all Pneu-
last as long as
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in any way
canizing. Only
wheel. Price,



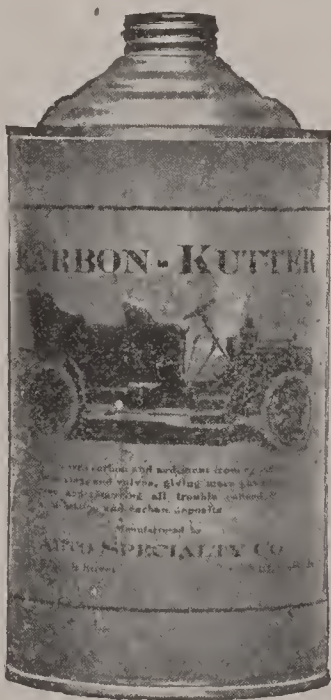
Porous or Punc-
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Cycles, Bicycles
matic tires —
tube — will not
hard. Does not
prevent vul-
two oz. to auto
\$2.50 per wheel.

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53-55 Bank Street, NEWARK, N. J.

Sold by MOTOR CAR SUPPLY COMPANY, CHICAGO, ILLINOIS



KARBON KUTTER

WILL SAVE YOU MONEY

Cleans thoroughly all carbon and sediment from motor
without injury to any parts.

GARAGE MAN'S CHARGE for tearing
down motor and scraping carbon, ten
hours - - - - - \$6.50

OUR CHARGE—1 qt. KARBON KUTTER - - - 1.00
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A set of Scrapers free with each order for one dozen quarts.

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AUTOMOBILE BRAKE BAND LINING

HAS A REINFORCED CUSHION SURFACE THAT TAKES UP ALL SUDDEN JARS AND PERMITS THE RIVETS TO BE COUNTERSUNK, THUS BRINGING THE WEAR ON THE LINING AND NOT ON THE RIVET HEAD

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THE NEW YORK LEATHER BELTING COMPANY
EXCLUSIVE MANUFACTURERS

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The finest Garage
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Our terms are right,
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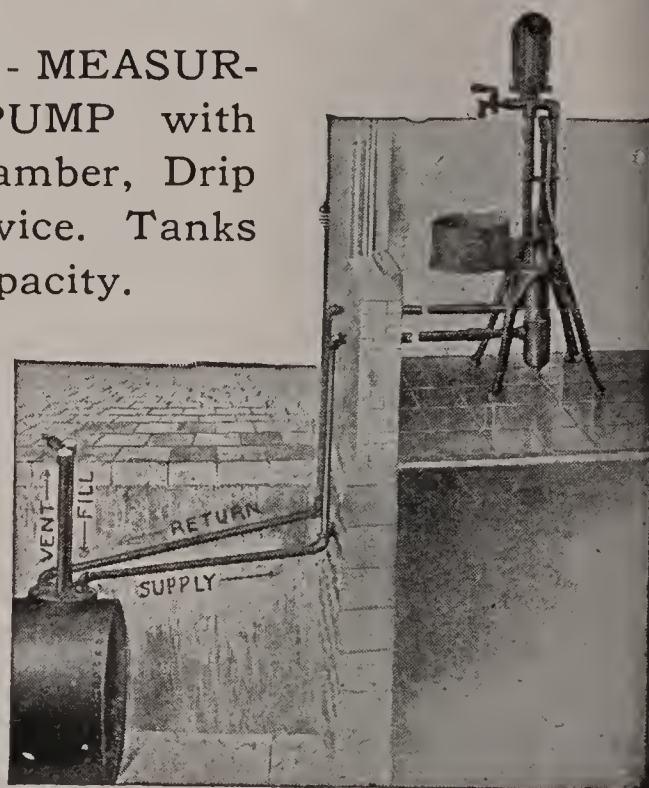
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Outfit consists of DOME SELF - MEASURING, PRICE COMPUTING PUMP with Tokheim Patent Priming Chamber, Drip Pan, Gauge Rod and Locking Device. Tanks furnished in any desired capacity.

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THE TOKHEIM MFG. CO., CEDAR RAPIDS, IOWA

THE "MULTO" SOCKET RATCHET WRENCH

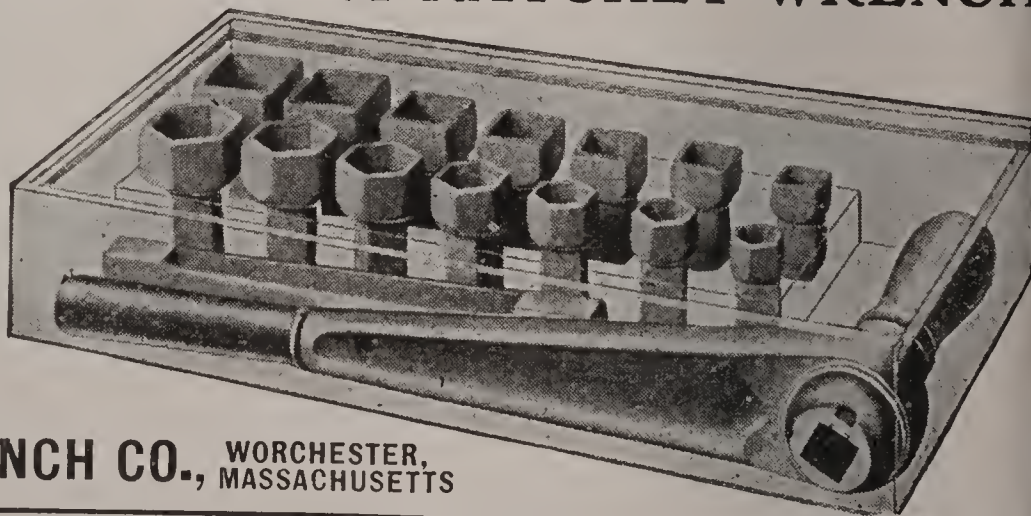
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"ONCE A GREASE,
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No waste or flushing on the brakes.
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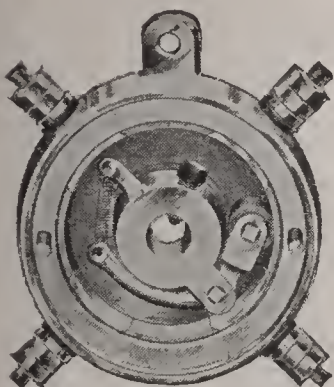
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OF EVERY KNOWN TYPE
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Is made IN ONE PIECE from asbestos.

Is impregnated in such a manner that it is proof against heat, oil and grease.

Is an ABSOLUTELY DEPENDABLE Brake Lining. You owe to yourself to see that your brakes are lined with it, if you want to have complete control of your car on the steepest grades.

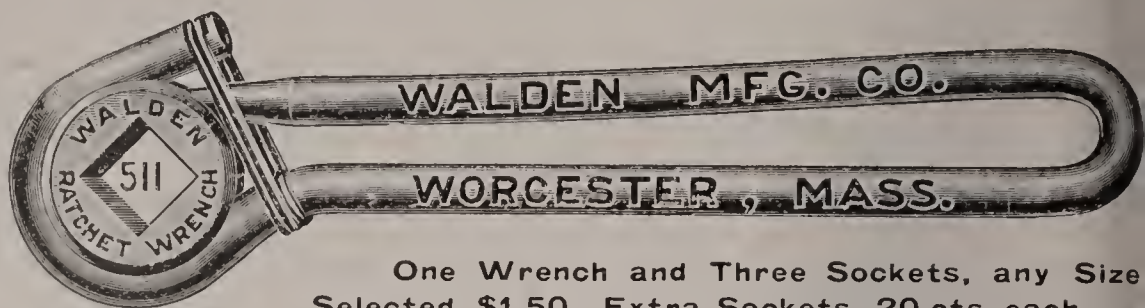
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One Wrench and Three Sockets, any Size
Selected, \$1.50. Extra Sockets, 20 cts. each.

Hexagonal Sizes Only
to Fit Heads

No. 06	$\frac{3}{8}$
No. 08	$\frac{1}{2}$
No. 09	$\frac{9}{16}$
No. 010	$\frac{5}{8}$
No. 011	$1\frac{1}{16}$
No. 012	$\frac{3}{4}$
No. 014	$\frac{7}{8}$
No. 015	$1\frac{5}{16}$
No. 016	1
No. 017	$1\frac{1}{8}$
No. 018	$1\frac{1}{4}$
No. 020	$1\frac{1}{2}$

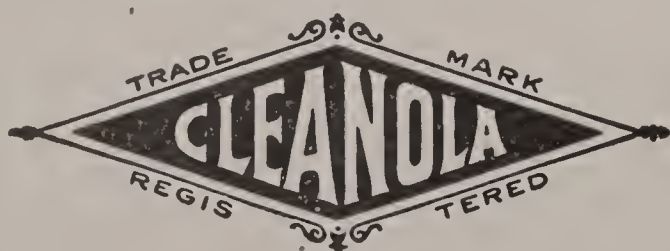
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WRENCH. NOTHING TO GET OUT OF
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THE HANDLE IS WIRE—BUT IT CAN'T
BREAK—IT WON'T BEND—IT WILL STAND
THE STRAIN—A STRONG, SERVICEABLE
WRENCH, THOROUGHLY WELL MADE;
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No. 28	$\frac{1}{2}$ "	Hex.-----	\$.35 Each
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Restores the shine and surface to the
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Wipes Freely, Contains no Acid.
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SOLD BY ALL FIRST CLASS DEALERS IN AUTOMOBILE SUPPLIES

If your dealer hasn't got them in stock, write us for our

Thirty-Day Trial Offer

THE CLEANOLA COMPANY

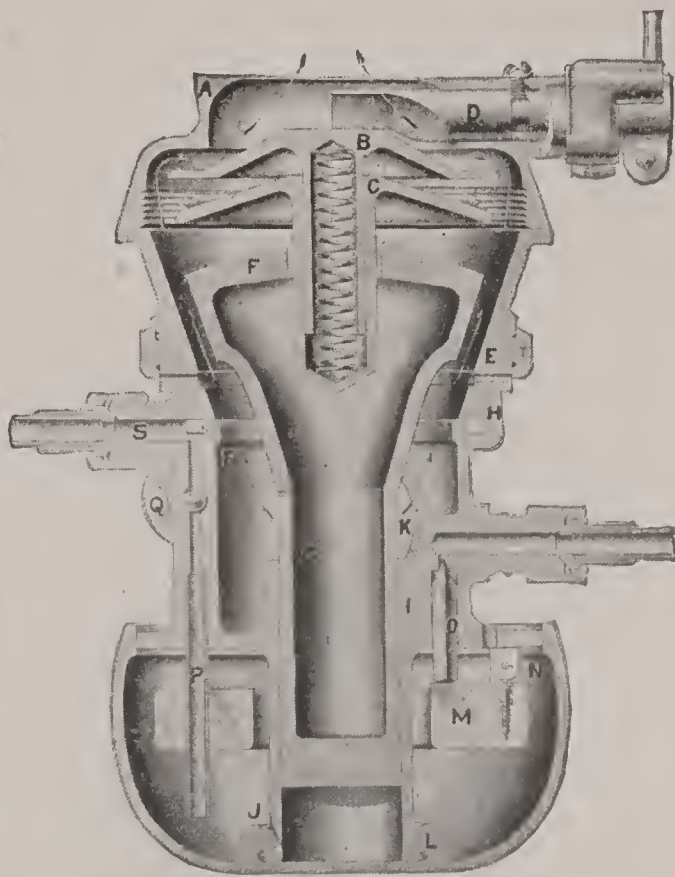
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New Principle

THE

Stewart Precision Carburetor



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You want the maximum of **POWER**
on the minimum of **FUEL**.
You want quiet running and
a **UNIFORM MIXTURE** at all speeds.

THE

STEWART PRECISION CARBURETOR

will get you these results better than any instrument
you have ever used, or your money will be refunded.

NEW PRINCIPLE.

The proportioning of air and gasoline is accomplished by **gravity**, acting on the one moving part, there being no **springs**.

THE RESULT

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MOBO AUTOMOBILE CLEANSER

is made as good as automobile soap can be made. It has a substantial body. Therefore it cleans easily, quickly and thoroughly. MOBO is also absolutely free from uncombined alkali. Because of this it works without injury. These things about MOBO mean much. They mean clean, bright cars, also long life to varnish and paint. Therefore we suggest—try MOBO—in 50c and \$1.00 cans.

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is made of Castile Soap, powdered Pumicestone and green Olive Oil. These three SHOFO ingredients show a quick, easy and effective working out. To explain, the Castile Soap washes, the Pumicestone scours and the Olive Oil keeps the skin soft. This SHOFO way of hand cleansing is ease, speed and delicacy combined. It is better than all others. Therefore we say—try SHOFO. In 10c and 20c cans.

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is different from all other metal polishes. It is one that eliminates the wait-while-it-dries feature. Also that rub-rub-rub which does tire. Instead the HYGLO way is quick, easy and sure. Then further a HYGLO shine is always even and brilliant, and one also that stays long. In that regard a HYGLO shine is distinctly long-lived, and the only one that is a real all-day shine. 15c, 25c and \$1.50 cans.

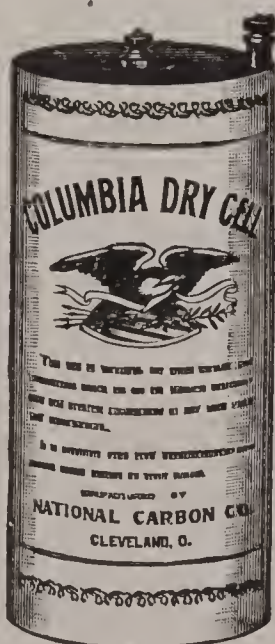
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is good for cars minus part of the fine varnished finish they had when new. That because LEVO fills in digs and covers up bare spots. At the same time LEVO gives a polish equal to a new coat of varnish, which does not wear off quickly, or come off in washing, because LEVO is an oil preparation and is waterproof. So if your car shows varnish departed, but not enough to warrant the paint shop—Try LEVO, and it will make the car look new. In 25c, 50c and \$1.00 bottles.

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Don't accept SUBSTITUTES which may spoil your trip.
INSIST on getting COLUMBIA cells. They cost NO MORE.

No Extra Charge for Fahnestock Clips

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Over 8,000 miles with a Cadillac on Diamond Dunlop type tires and no tire trouble at all. That's what I think of the Diamond Dunlop Style of tires.

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My experience with Diamond Fisk Type or "bolted on" tires on my Stevens-Duryea has been so satisfactory that I shall certainly have none but Diamond in future.

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Diamond

Heavy or Light

WRAPPED TREAD TIRES ARE FOR YOU

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I can well imagine that you receive many testimonials for Diamond tires, but I wish to add mine—that Diamond tires on my Peerless Car have been nothing short of extraordinarily fine.

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Quick Detachable

Regular Clincher

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And Fisk Types

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MEANS THAT GOODS SO BRANDED
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Equip your car with the GRAY AUTOCHIME. The Pioneer and Aristocrat of exhaust-blown signals. Some unscrupulous jobbers and dealers are offering imitations at prices from \$4.00 up. The Autochime sells for \$10.00. It's more than worth the difference.

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Supply lubrication for practically every part of the car; cylinders, transmissions, differentials, bearings, etc. The service these lubricants render is due to DIXON'S TICONDEROGA FLAKE GRAPHITE — the finest lubricating graphite the world produces. Use Dixon's and increase your car's efficiency.

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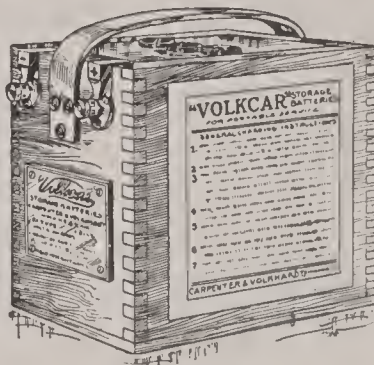
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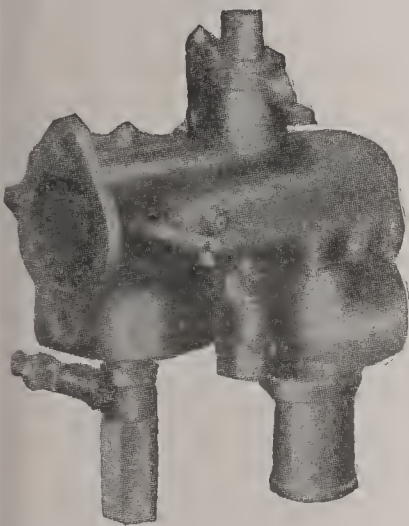
is exclusive. No other carburetter on the market has an automatically controlled needle valve which apportions the exact amount of gasoline for the given amount of air, making the quality of the mixture constant, whether running five or fifty miles per hour, up or down grade.

Notice that the needle valve and the air inlet are so affixed to the same lever that any movement of the air valve gives a correct and proportionate movement of the gasoline inlet, thus insuring a perfect mixture at all times, under all conditions.

The Petre Carburetter is guaranteed to

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2. Give Greater Flexibility in Slow Running.
3. Greater Speed—By increasing Quantity, without changing the Quality of the mixture.
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(25 per cent. more power on topping a hill—and we can prove it.)
5. More Mileage—Less Consumption—Mixture is never too Rich.

THE PETRE CARBURETTER CO.
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Tire Problem Solved!

No remedy has been found that would heal punctured tires without injuring the rubber, until "PERMANIT" was discovered and put in practical use.

"Permanit"

is imported from Europe and in use there for years and now in this country on the market for over a year and a half.

See what our customers say about it:

A prominent physician and ex-president of the Board of Trade writes:

"My Dear Sirs—I have used the auto car in the tires of which you put the material you call "PERMANIT," since November 21, 1907. It has not been necessary to pump up the tires since, although we have taken out of the tires several nails, tacks and pins. It appears to me to do the work."

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See Our
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Sounds unbelievable, but it really does it. Besides, keeps the tires in good condition and increases their life. Demonstrated before Board of Governors Harrisburg Motor Club with great success.

In your own interest write today and get full particulars and price and discounts to dealers, or send 53c for a sample carton which is sufficient for a bicycle tire.

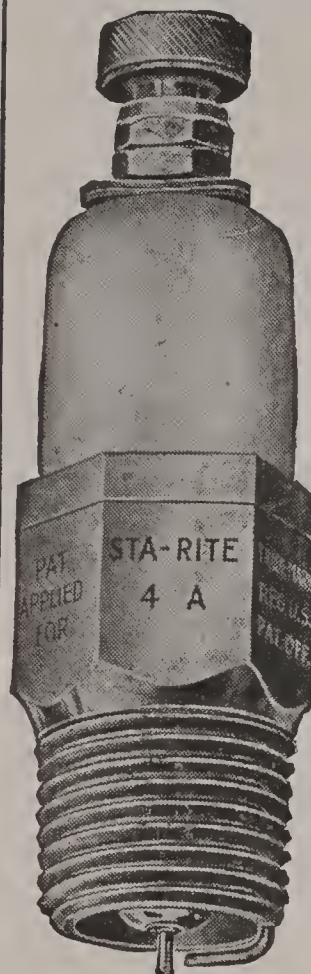
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Ignition Plugs Stay Right The Longest

TRADE MARK REG. U. S. PAT. OFFICE



No. 4A. Half-Inch Separable Double Porcelain
Price - \$1.25

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TYPE OF STA-RITE PORCELAIN IGNITION PLUGS

Metric, No. 6, Single, Adjustable Sparking Point.
Price - \$1.25

A. L. A. M., No. 8A, Separable, Outside Sparking Points. 3/8-inch-18th. Original Auto-car size. Price - \$1.25

Winton, No. 15A.
Price - \$1.25
Extra Long.

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Porcelain Tube and Cap with Bolt, Point, Packings, Nuts and Springs. 50 cts.

With our double porcelains, the contraction and expansion is uniform, and cap protects inner heated tube. Practically no breakage or leakage with "VULCAN" STA-RITES.

GUARANTEE:

We agree to repair, free of charge, perpetually, any Sta-Rite Plugs returned to our factory, at any time.

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Hedstrom Plug for Indian Motorcycles. Price - \$1.50

Mica Insulator, complete, threaded to fit Nos. 28A, 32A, 48, 51 and Hedstrom.
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All "Venus" Sta-Rite Mica Plugs are constructed with solid bolts from Bessemer steel rod, which do not stretch, and mica does not loosen. The inner India mica core is made with no shellac or other sticking substance. The perfect mica washers are compressed under great pressure, and machine turned to a finely glazed surface, which with ample air space is practically soot and waterproof, and cannot be broken in service.



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Price - \$1.50

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INCORPORATED 1900

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No matter what kind of roads you have to travel, and no matter what kind of pneumatic tires you ride on, you are liable to have a puncture or blowout at any time. If you try to repair it on the road, it takes time and work--dirty work, too. If you continue your journey without attempting to mend the tire you will ruin it, and tires cost money.

Just Get a Stepney and you Won't Have to Do Either
you won't even soil your hands. Simply attach it to the rim of the injured tire. Anybody can do it. One use of the *Stepney* usually pays for the device, but it can be used interminably. Ask for the *Stepney* anywhere, and *get* it, or write for Catalog "A"

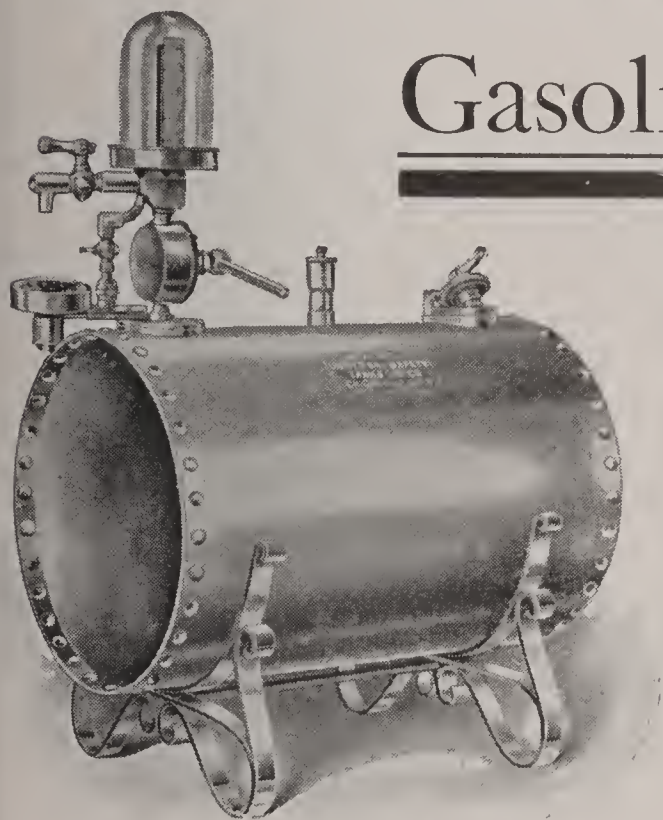
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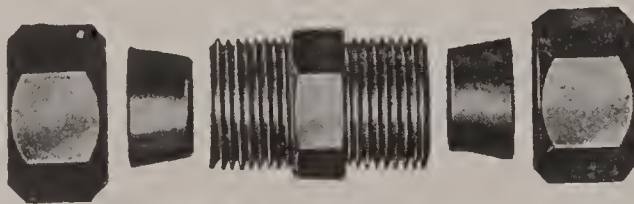
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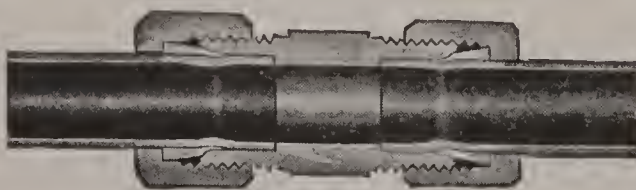
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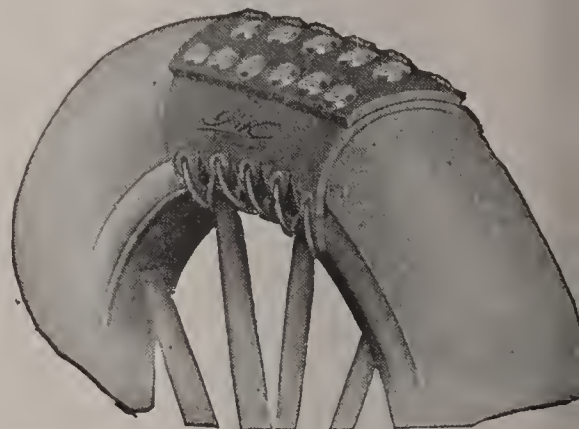
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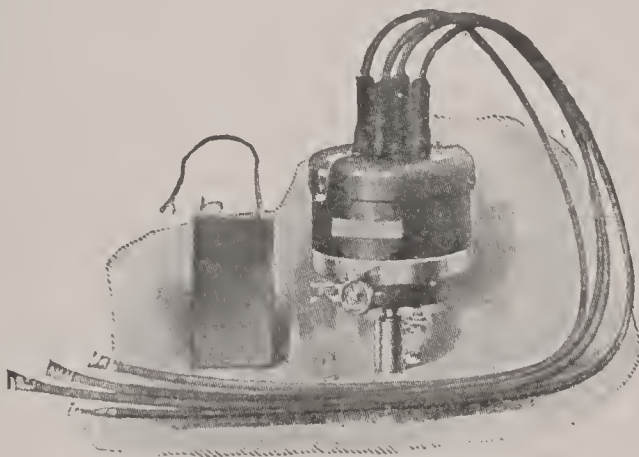
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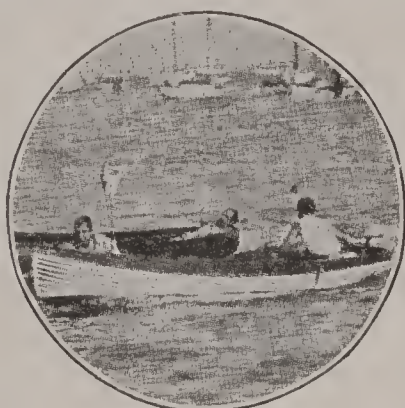
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The first improvement in Prism Binoculars

Eighteen power magnification (other powers in proportion), with a field 607 feet in diameter, at one mile distance, as bright from edge to edge and every detail as sharply defined as in an opera glass, is what you get in the

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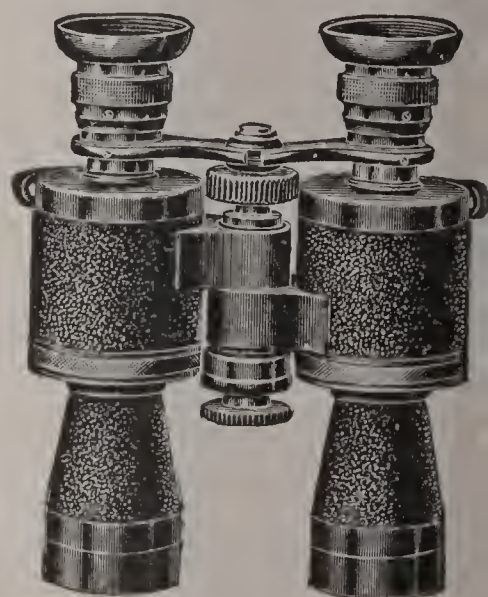
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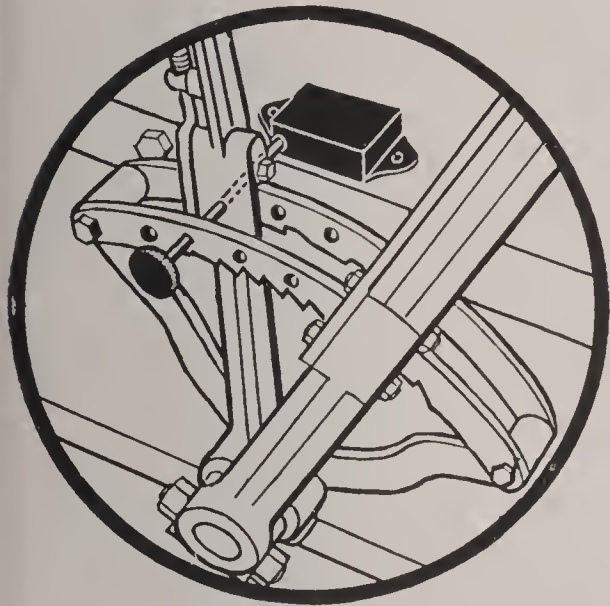
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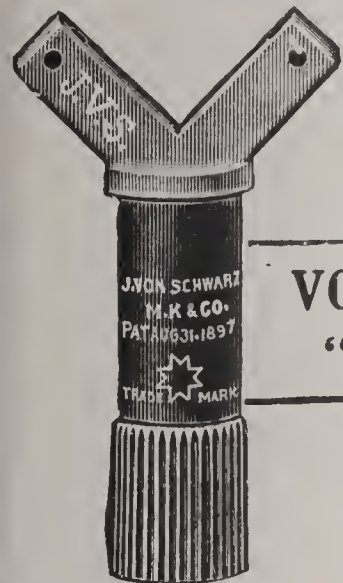
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Some automobile manufacturers are particular about accessories which accompany the machine, and some are not. A dealer of accessories cannot afford to be indifferent about the quality of any article he receives and sells.

Every maker of a high grade automobile lamp and every experienced user will invariably insist upon the

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Thousands of imitations of these burners are placed in lamps which are never tested, until started by the final owner, and user. The results are invariably disastrous.

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ABSOLUTELY CARBONLESS

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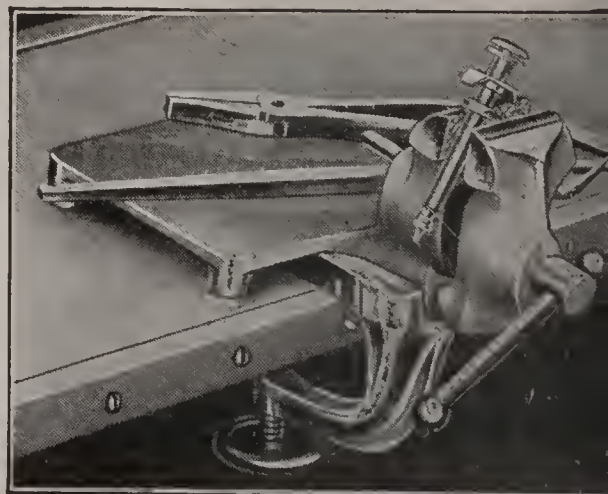
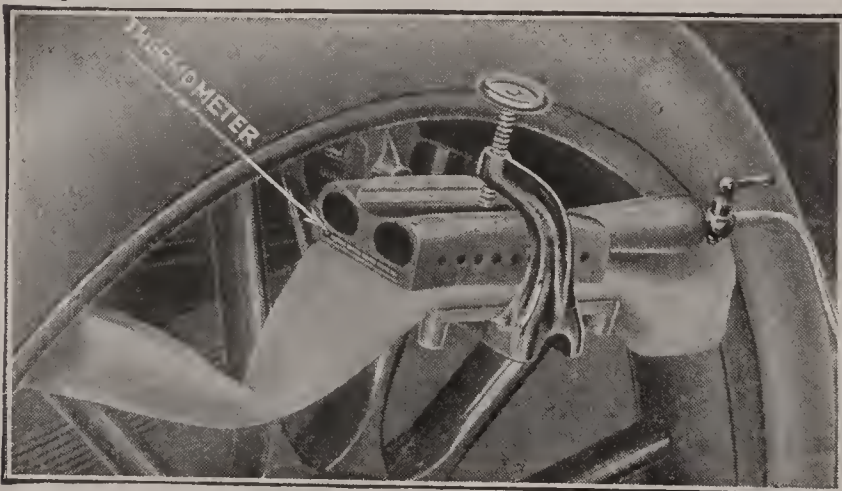
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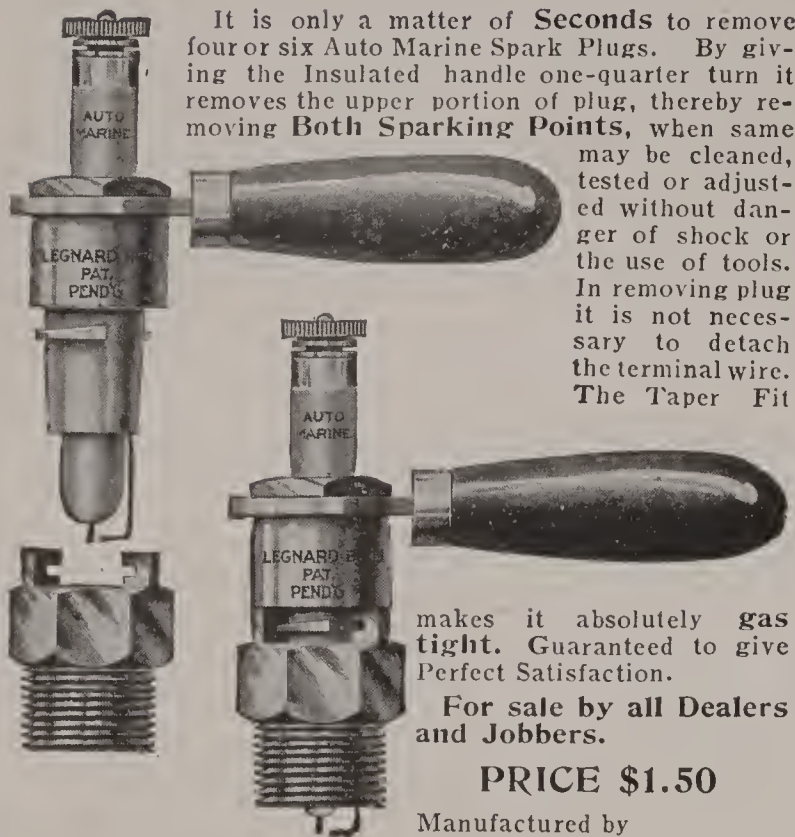
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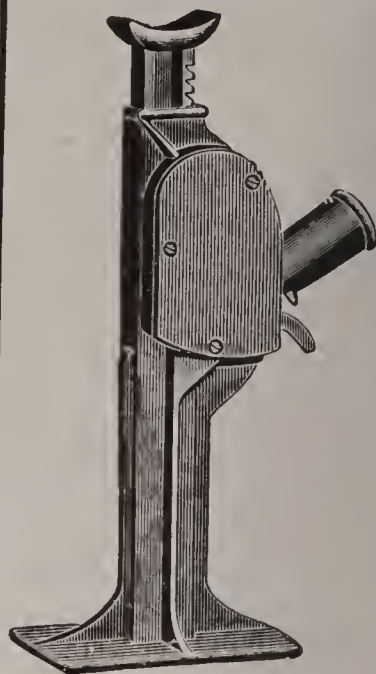
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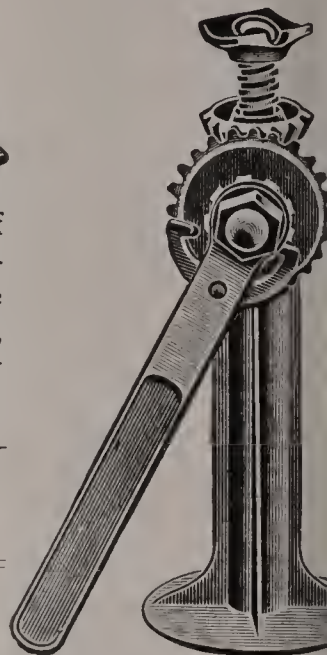
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"A simple twist of the wrist" changes this coat
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Insist on a "Presto" collar on your coat.

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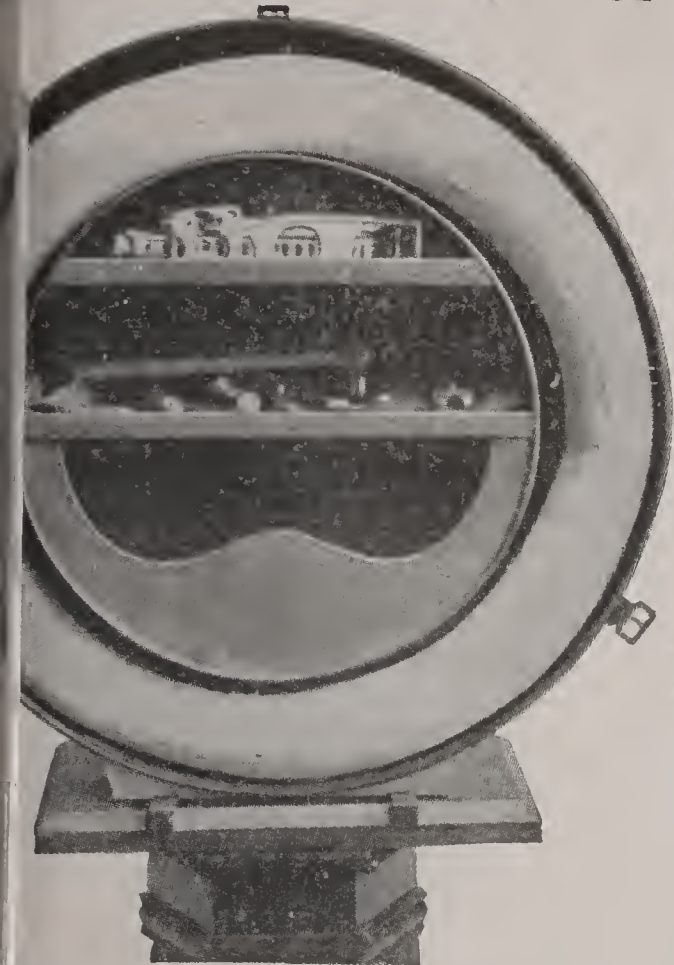
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TIRE, TOOL AND TOURING CASE



shows case with cover removed, displaying tires, tools, etc. The lower space within the circle holds shoes, gloves inner tubes—or any articles used in touring. The upper space takes two shoes, the upper spaces a full complement, thus doing away with all other appliances and extras. The cost of the Dow Tire and Tool Case is much less than that of the many pieces of equipment which this case is not used on your car. Patent pending.

FOR CAR SUPPLY COMPANY, Chicago Agents.

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You Can Control This Automobile Horn Perfectly



SIRENO

This Sireno Electric Horn is so flexible that by varying the pressure on the switch you can produce a gentle purr for the city streets, or a blast that can be heard over a mile away in the country.

The Sireno produces a powerful, musical note. It starts instantly, yet the minute the switch is released a patented, magnetic brake automatically stops the motor.

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The Sireno is reliable, for it is operated by the regular six-volt ignition battery. It is independent of the engine—never fails to work—doesn't drain the ignition battery. And if you have a magneto, any six-volt battery will run the horn. The Sireno is built of the best materials and is beautifully finished. It is light—compact—easily put on your car in a few minutes.

The Sireno is ball-bearing throughout—self cleaning—perfectly protected from dust and water. It needs no care—has no vibrator—nothing to wear. And you can place the switch wherever you want it. Price \$35 complete.

THE SIRENO JUNIOR

Built on the same principle as the Sireno, except that it is smaller—produces a lesser volume of sound—and has no automatic brake. A wonderful horn at \$25—suitable for any car. For summer touring, there is no better horn for any car than the Sireno Junior with the long Projector. Its note will carry for almost two miles on a country road. Price, complete, \$28.

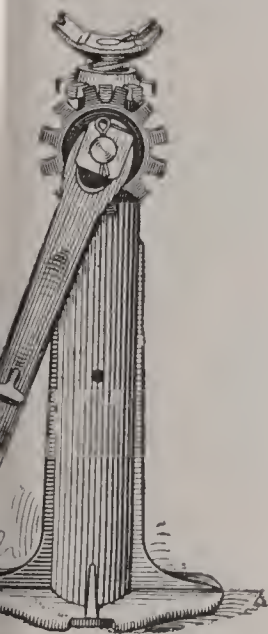
If your dealer hasn't the Sireno, send us \$35—or \$25 for the Junior—and let us ship you a Sireno. If you are not satisfied that it is the best horn made, return it to us. We will refund your money at once. But write immediately. We may not be able to fill your order if delayed. Address Department "S."

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AND ATLAS AUTO JACKS

Patent Allowed.



Atlas Nos. 1, 2, 3.

Height over all, No. 1 10 inches. No. 2, 11 3/4 inches. No. 3, 12 1/2 inches. Weight, No. 1 5 lbs; No. 2, 6 lbs.

The lever has an up and down motion. It is slotted at the end so as to move in or out, to engage from 1 to 4 teeth of the wheel.

The head revolves on the end of the screw so that the jack can be worked at any angle or in cramped places. The truss brace, round or square axle.

Supports any automobile with wheels 22 inches or over.

Cannot have an accident with this jack.

The screw is one inch in diameter.

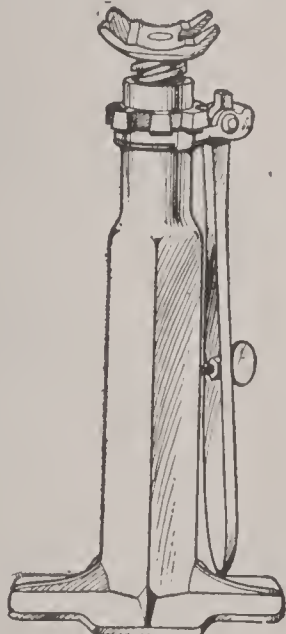
Quick work raise the screw up against the axle and pull down until tight then two or three strokes of the handle raises the wheel.

The Atlas jack is just as essential as good roads.

That your car is equipped with either a U. S. or Atlas jack is simple, durable, guaranteed.

Price, No. 1 \$2.50; No. 2 \$3.00.

THE JACK COMPANY, 128 West Lake Street, Chicago.

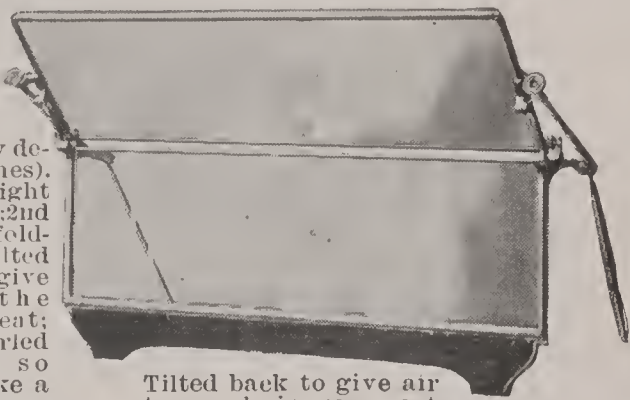


U. S. Jack No. 1.

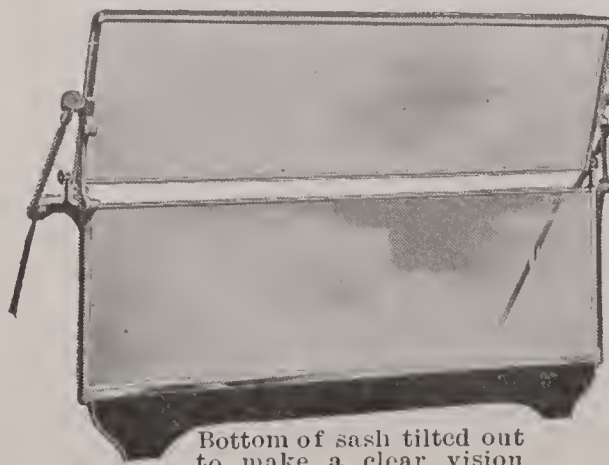
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Col. Sprague's New Air Cushioned "Leader" Wind Shield.

It can be rigidly held in four positions (the only desirable ones). 1st. Upright or closed; 2nd. Down or folded; 3d. Tilted back to give air to the back seat; 4th. Carried forward so as to make a clear space between the upper and lower sash, so you can see your way in rainy weather. Our air cushion locking device works easily and positively and holds the shield rigidly in each of the above positions. It cannot get out of order.



Tilted back to give air to people in rear seat and still keep out storm.



Bottom of sash tilted out to make a clear vision space in case of rain and still keep out the storm.

Catalog and price list sent on demand. N. B. All of our shields are made to fasten on the dash with clips. Where side standards are wanted we charge \$1.50 net extra, including dash fixtures.

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POWELL PRESSED STEEL MUFFLER, PATENTED



In ordering state size of engine cylinder and number, size of exhaust pipe and whether standard pipe, steel or flanged connection is used.

We recommend a 15 or 16 section for a 40 to 50 horse-power automobile engine.

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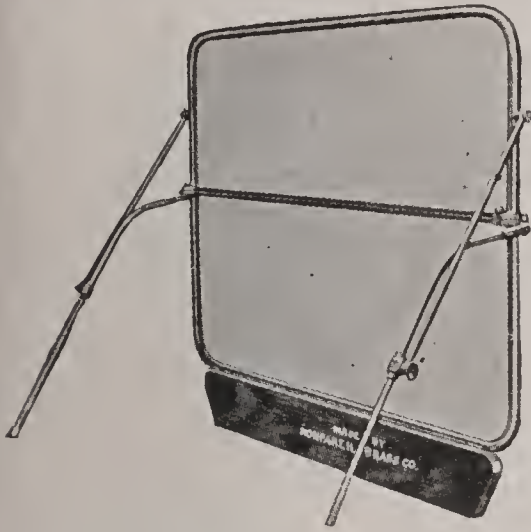
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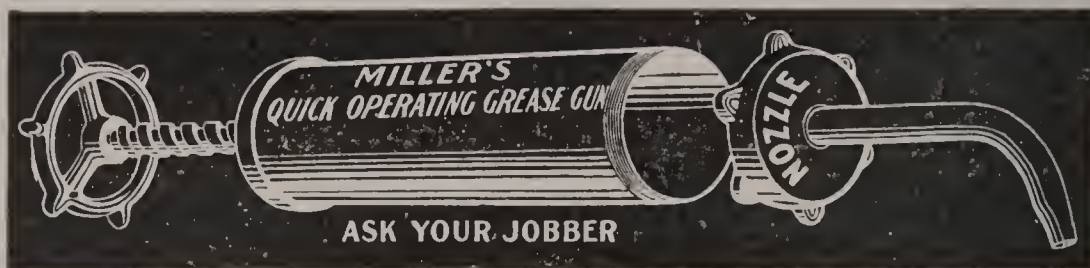
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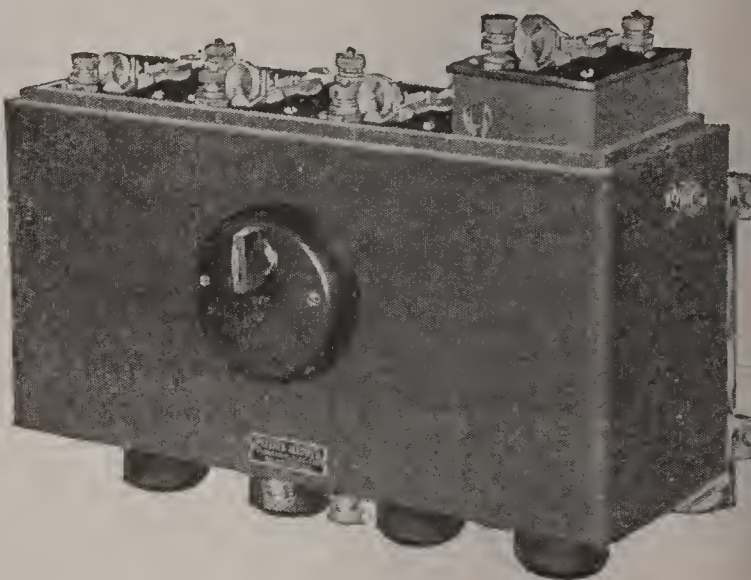
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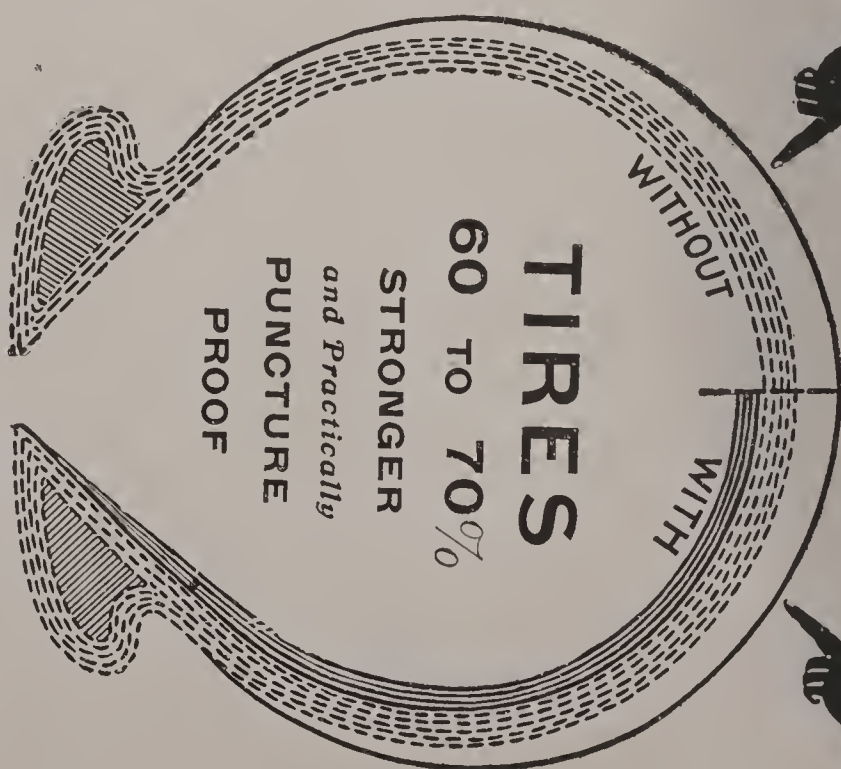
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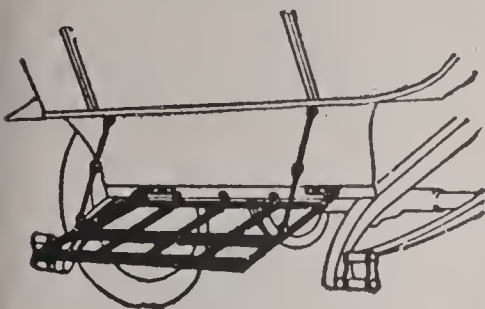
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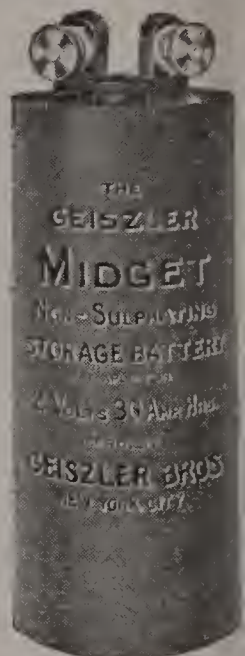
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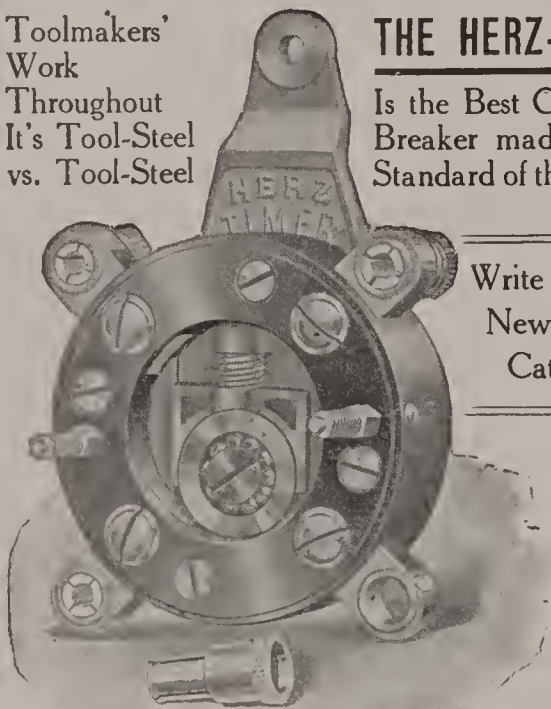
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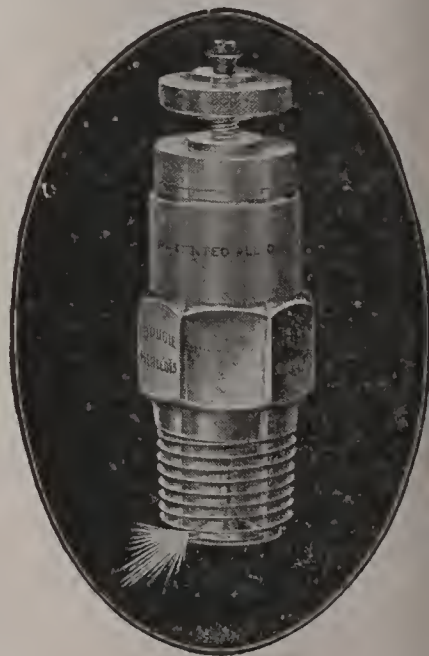
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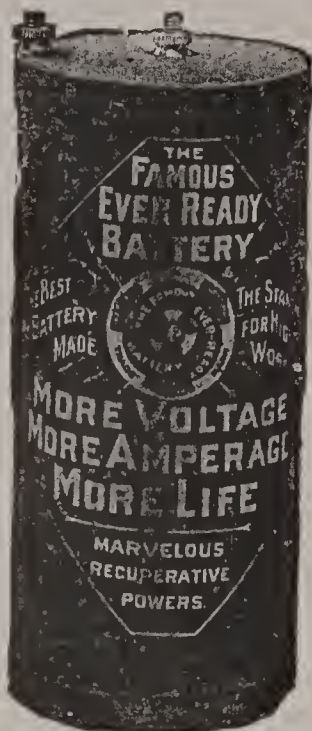
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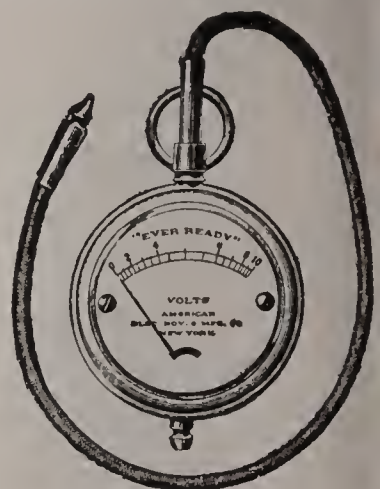
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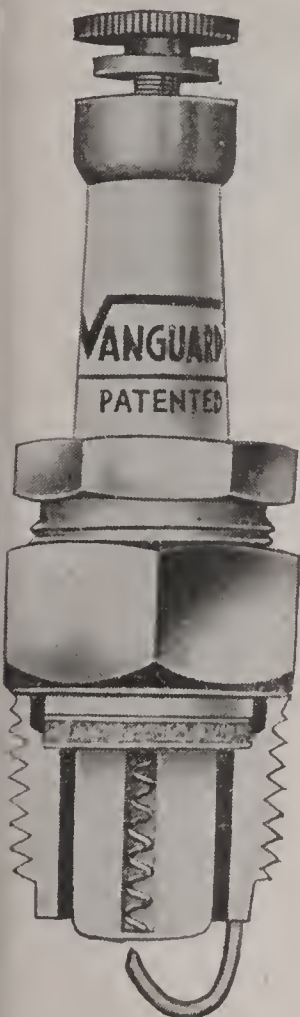
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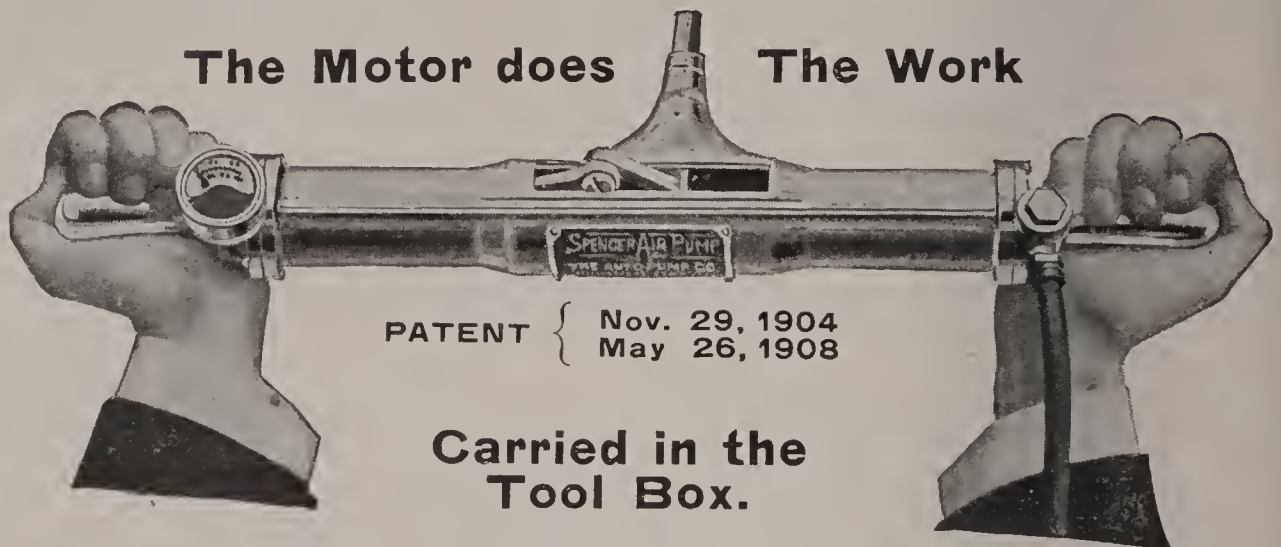
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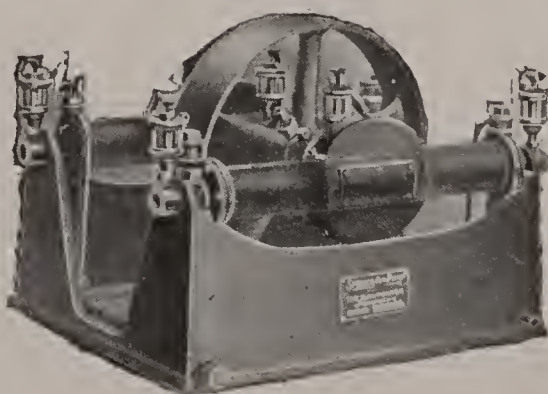
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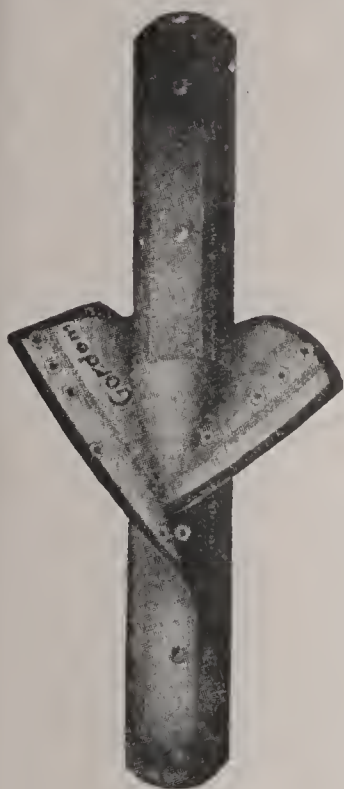
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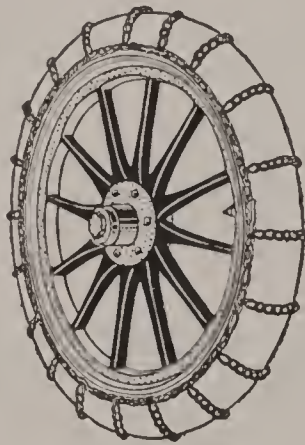
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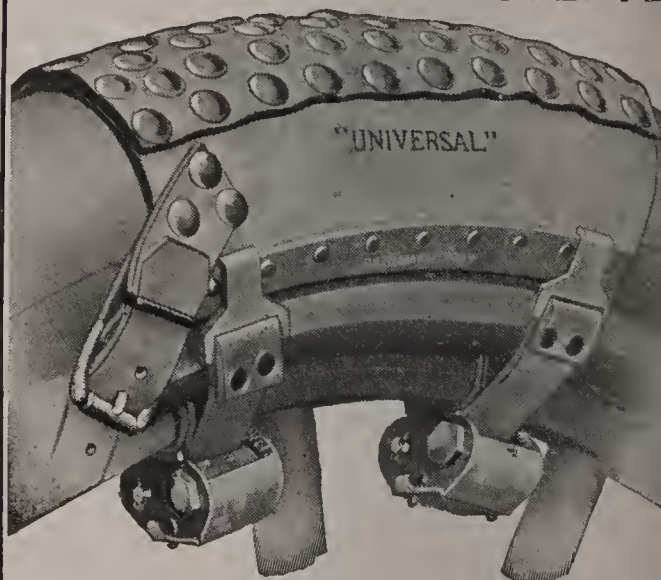
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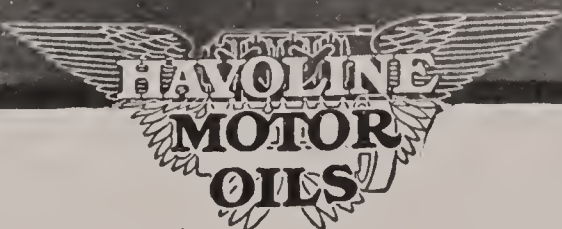
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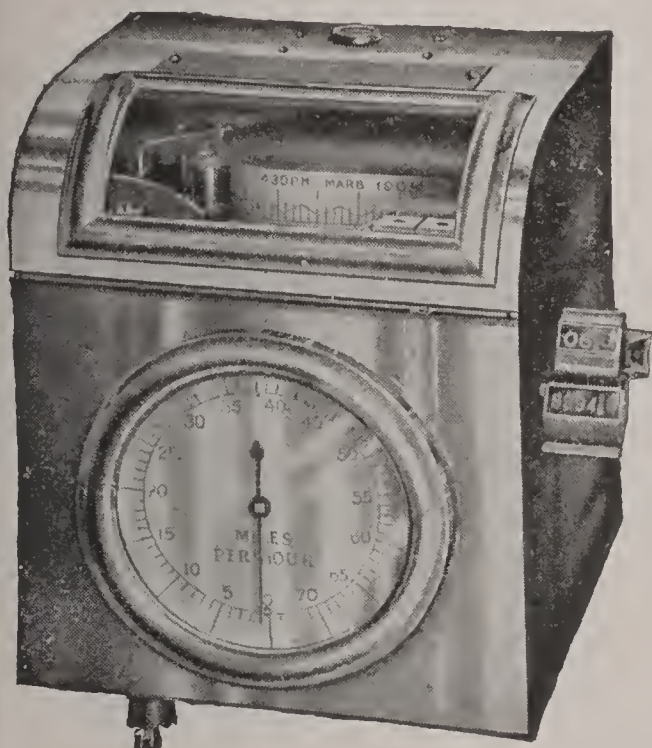
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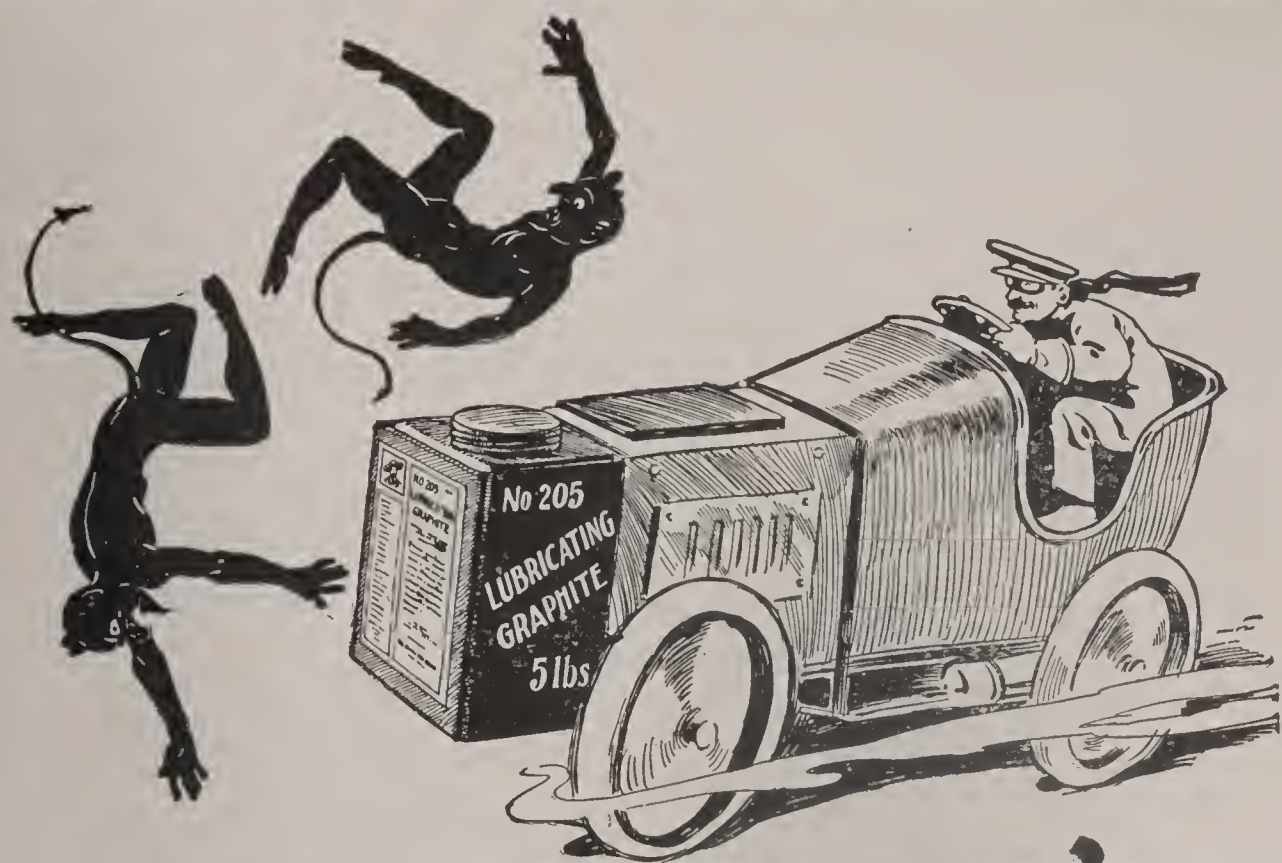
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1888

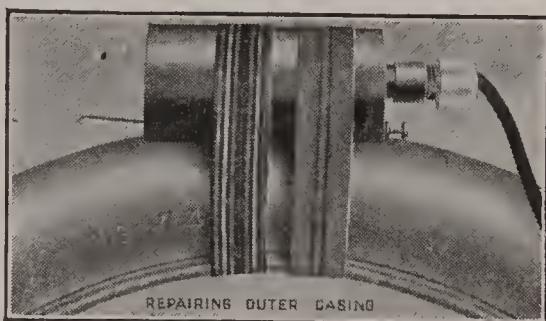
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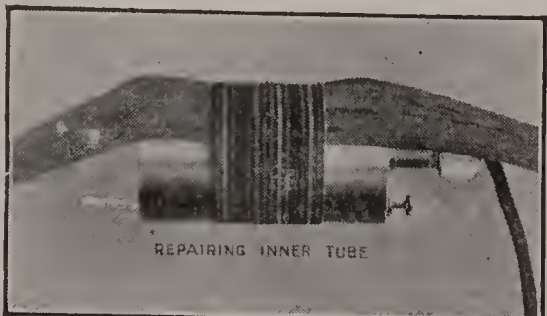
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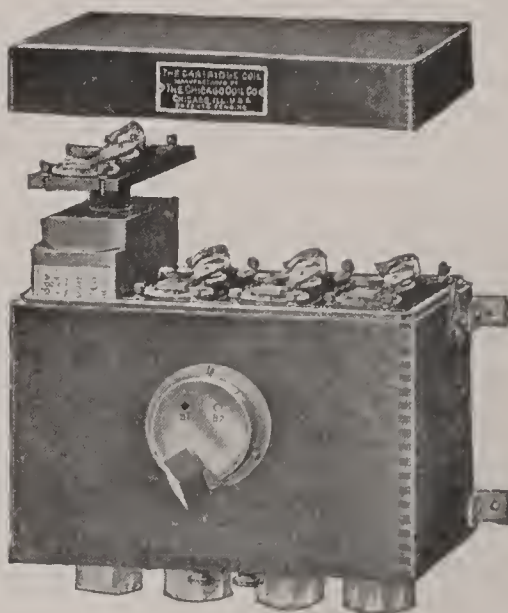
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This coil is so made that you can replace any part in a few seconds' time.

No units to throw away. Economical on current. Has the switch with a memory which saves platinum wear and is in every way a superior article.



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Parts are standard and interchangeable

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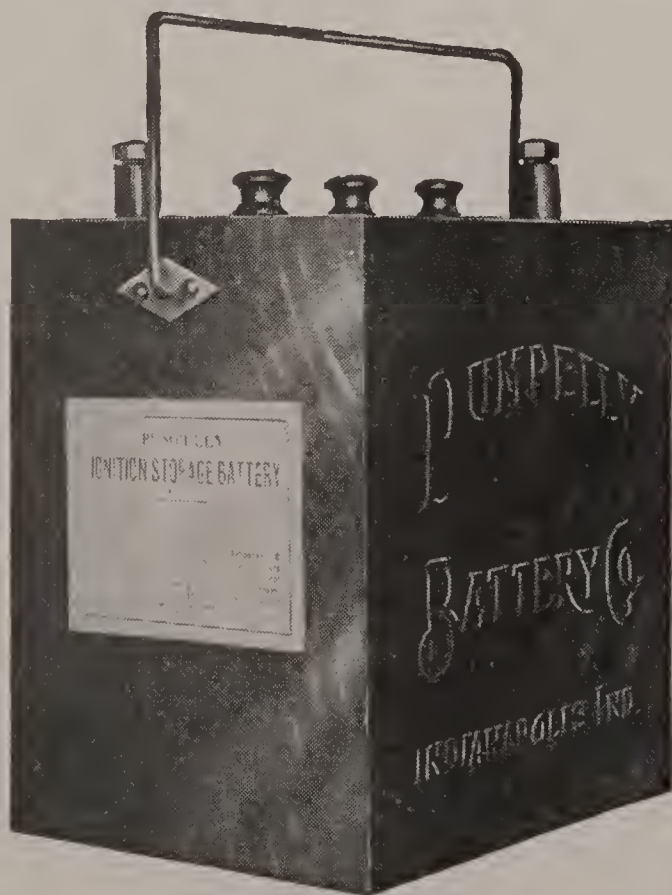
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In Actual Brake Tests this Plug has shown Greater Horse Power than any other



John B. Anderson, M. D.

01809 Division Street, Spokane, Wash.
May 27, 1909.

The National Steel Products Co.,
Cleveland, Ohio.

Gentlemen:

Enclosed please find my check in the sum of Eight Dollars for which send me four spark plugs. I have tried plugs of several different makes. Yours is the best ever. I have a set that I have used in my Ford Model N Car **for a year**. Yesterday I went for a seventy mile run, and as one of my plugs is in poor condition, the mica being broken, I purchased a new plug said to be soot proof and to spark in oil and water. I made the run of thirty-five miles with the engine being erratic after the first few miles, and as I was loosing power on the hills I examined the plugs, found the New Plug as black as soot itself, and the other three plugs all with a sparking surface. I brushed them off with a stiff brush, and put in my old dilapidated plug and made the other thirty-five miles without mishap. **I do not give a D— whether a plug will spark in oil and water. I want one that will spark in the cylinder, and permit me to say that your plug will do it.** I think that you will make the other fellows sit up and take notice. I tell you this now, as post mortem roses have their beauty lost to the fellow most interested.

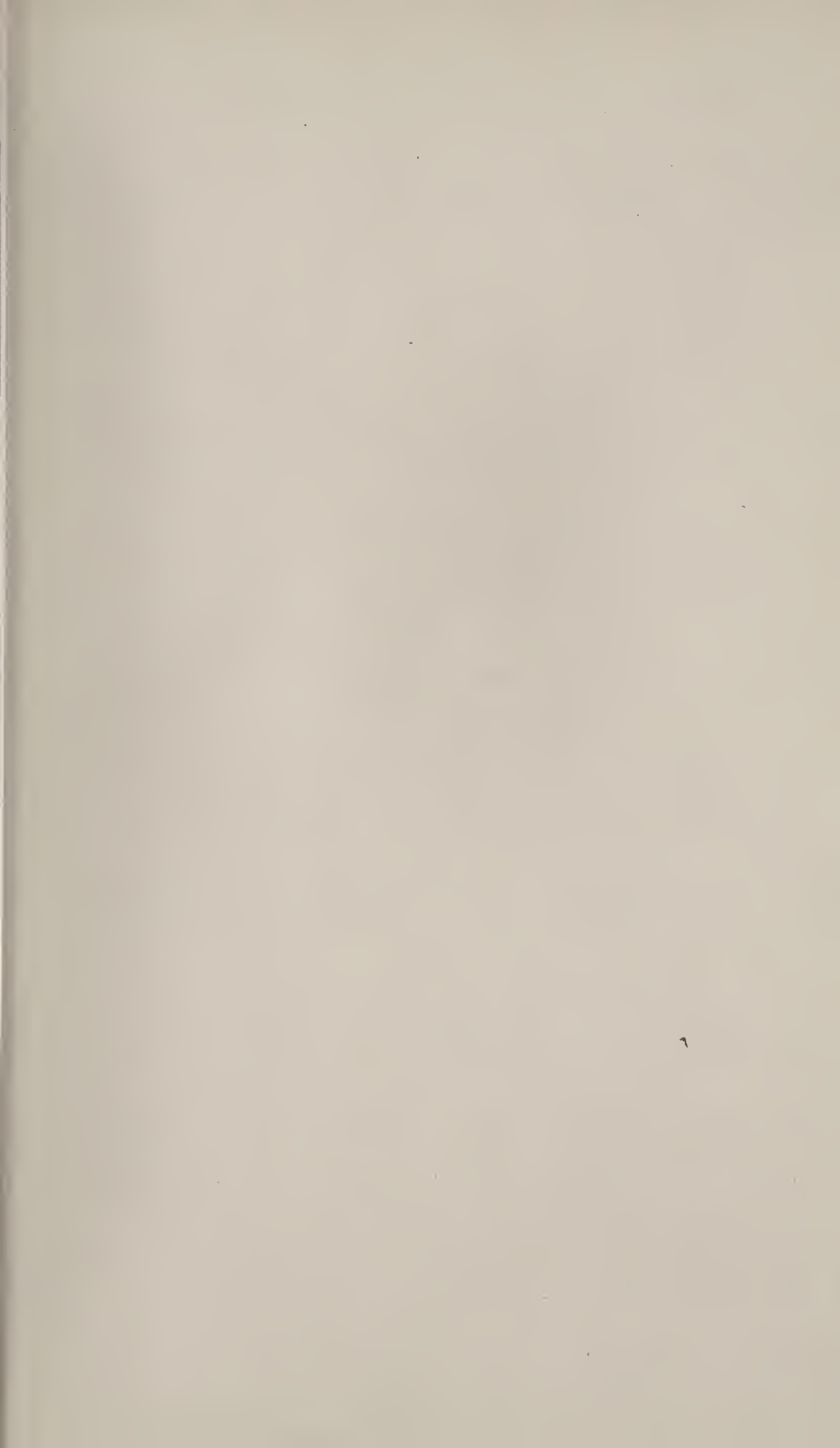
Yours very truly,

JNO. B. ANDERSON.

We are supplying a number of the largest automobile manufacturers, who have previously contracted for other plugs, with our Spiral Core, Blue Blaze and Rapid Fire Plugs, for 1909 use, they having discontinued other plugs because of better results from ours.

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